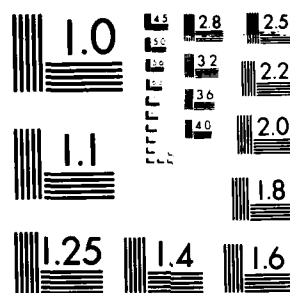


SUMMARY OF METEOROLOGICAL OBSERVATIONS SURFACE (SMOS)
NORFOLK VIRGINIA(U) NAVAL OCEANOGRAPHY COMMAND
DETACHMENT ASHEVILLE NC NOV 83

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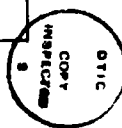
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REPORT DOCUMENTATION PAGE		READ INSTRUCTIONS BEFORE COMPLETING FORM
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19. KEY WORDS (Continue on reverse side if necessary and identify by block number) Climatology, surface wind, temperature, precipitation, ceiling, visibility, relative humidity, station pressure, extreme temperatures, sea level pressure, daily temperature, weather conditions, monthly climatology, coastal region, snow depth, and cloud cover		
20. ABSTRACT (Continue on reverse side if necessary and identify by block number) This data report consists of a six part statistical summary of surface weather observations. The six parts are: Part A - Weather Conditions/ Atmospheric Phenomena, Part B - Precipitation/Snowfall/Snow Depth, Part C - Surface Winds, Part D - Ceiling versus Visibility/Sky Cover, Part E - Psychrometric Summaries, Part F - Station Pressure/Sea Level Pressure		

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STATION NO OR SUMMARY		STATION NAME		LATITUDE		LONGITUDE		STATION ELEV (FT)		CALL SIGN		WMO NUMBER	
13750		Norfolk, Virginia		36° 57' N		76° 17' W		15		KNGU		723085	
STATION LOCATION AND INSTRUMENTATION HISTORY													
NUMBER OF LOCATION	GEOGRAPHICAL LOCATION & NAME			TYPE OF STATION	AT THIS LOCATION		LATITUDE	LONGITUDE	ELEVATION ABOVE MSL		OBS PER DAY		
					FROM	TO			STATION (FT)	TYPE BAROMETER			
1.	Weather Service Office (Ops Bldg)			NAS	1949	1960	36° 57' N	76° 17' W	21	Mercurial	24		
2.	" " "			"	1960	1962	"	"	34	"	"		
3.	" " "			"	1962	1966	"	"	32	"	"		
4.	" " "			FWC	1966	1976	"	"	"	"	"		
5.	" " (Bldg LP-1)			"	1966		"	"	36	Aneroid	"		

NUMBER OF LOCATION	DATE OF CHANGE	SURFACE WIND EQUIPMENT INFORMATION				REMARKS, ADDITIONAL EQUIPMENT, OR REASON FOR CHANGE
		LOCATION	TYPE OF TRANSMITTER	TYPE OF RECORDER	HT ABOVE GROUND	
1.		Atop control tower	* Selsyn	Double register	80'	1. Aneroid barometer (NL-448) 2. Barograph (Marine) 3. Semi-auto met stn (AN/GNQ-14B) 4. Ceiling light (NL-121) 5. Cloud height set (AN/GNQ-13) 6. Transmissometer (AN/GNQ-10) 7. Weather radar (FPS-81) (FPS-106) 8. RVR indicator (Model CJ002) 9. Thermoscreen (NL-41) 10. Semi-auto met stn (AN/GNQ-29A)
1a.	Installed 1955	Three eights mile due east (Ops Bldg)	UMQ-5	RD-108	6'	
1b.	1968	" " " "	AN/UMQ-5C	RD-108	15'	
1c.	1980	" " " "	"	"	10'	
		* Date disassembled unknown				

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CONTINUED ON REVERSE SIDE

SUMMARY OF METEOROLOGICAL OBSERVATIONS, SURFACE

This update includes the period of record (POR) 1973 through 1982, with all available data through 1982 for extreme values.

This summary should be retained by individual stations along with the SMOS prepared in 1973. The retention of these summaries will provide the most comprehensive climatological file for your station.

DESCRIPTION: Preceding each section is a brief description of the data comprising each part of the summary and the manner of presentation. Tabulations are prepared from 3-hourly and daily observations recorded by stations operated by the U.S. Navy and U.S. Marine Corps. 3-hourly observations are defined as these record or record-special observations recorded at scheduled 3-hourly intervals. Daily observations are selected from all data recorded on reporting forms and combined into Summary of the Day observations (prepared from record-special, local, summary of the day, remarks, etc.).

COMMENT: All observations summarized in this tabulation have been computer edited for consistency and reasonableness prior to, or during the processing stage. Efforts to improve the quality of the data after summarization are expensive, i.e., the improvement might consist of the elimination of one suspect or erroneous value. The cost of preparing "perfect" copy can be prohibitive due to the handwork involved. Suspect cases will occur infrequently, but users should not disregard extreme values completely as some could be valid. Questionable values will most likely be single occurrences shown by a percentage frequency of "0". (This value indicates a percent less than ".05," which, in most cases, reflects a single observation.) Since most stations summarized now have in excess of 10,000 3-hourly observations, the occurrence of an occasional spurious value should not in itself be considered significant. Every effort is made by this office to maintain a high degree of accuracy and reliability in these tables, and the Naval Oceanography Command Detachment (NOCDD), Asheville, N.C. welcomes your comment and criticisms.

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Asheville, N. C.

PART A

WEATHER CONDITIONS

This summary is a percentage frequency occurrence of various atmospheric phenomena and observations to vision, derived from 3-hourly observations, and is presented in three tables as follows:

1. By month and annual, all hours and years combined.
2. By month and annual, all hours and years combined, by wind direction.
3. By month, all years combined, by standard 3-hour average.

Occurrences of the various phenomena included in each category on the forms are listed below:

Thunderstorms - All reported occurrences of thunderstorm, tornado, and waterspout.

Rain and/or drizzle - All liquid precipitation, falling to the ground, not freezing.

Freezing rain and/or freezing drizzle (glaze) - Precipitation falling in liquid form, but freezing on contact with an unheated surface.

Snow and/or sleet - Included are snow, sleet, snow pellets (soft hail), snow grains, and ice crystals.

Hail - Occurrences of hail and small hail are included.

Percentage of observations with precipitation - Included in this category are the observations when one or more of the above phenomena occurred. Since more than one type of precipitation may be reported in the same observation, the sums of the individual categories may exceed the total columns.

Fog - Included are fog, ice fog, and ground fog.

Smoke and/or haze - Occurrences of smoke, haze, or combinations of smoke and haze are included.

Blowing snow - Occurrences of blowing snow (also drifting snow when reported from non-WBAN sources.)

Dust and/or sand - Included are blowing dust, blowing sand, and dust.

Blowing spray - This item if reported, is not shown in a separate category on this form but is included in the computation Percentage of Observations with Obstructions to Vision.

Percentage of observations with obstructions to vision - Included in this category are the observations when one or more of the above obstructions to vision occurred. Since more than one type of obstruction may be reported in the same observation, the sums of the individual categories may exceed the percentage total columns. Also, although precipitation may reduce visibility, it is not considered an obstruction to vision for purposes of this summary; therefore, the percentage total of obstructions to vision need not reflect the total observations with reduced visibility.

NOTE: The total number of observations may vary among tables within the same month and period. Percentages may not always equal 100.0 due to rounding practices.

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WEATHER CONDITIONS

ATMOSPHERIC PHENOMENA

STATION NAME

40-7

ALL

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE OF DAYS WITH VARIOUS ATMOSPHERIC PHENOMENA
FROM DAILY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JAN	ALL Y	1.2	45.3	2.8	12.0	.2	46.5	36.5	55.2	1.7		64.0	1754
FEB		1.7	45.5	1.7	11.9	.1	47.5	37.7	61.4	.6	.2	61.6	92
MAR		5.1	47.5	.4	6.5	.3	47.3	37.1	56.3	.4	.3	67.1	1777
APR		1.6	49.9		.6	.4	45.5	37.9	61.3		.3	66.5	1722
MAY		1.1	52.1			.3	47.4	43.1	69.4		.2	75.3	1754
JUN		1.6	44.4			.2	46.5	37.7	72.6		.3	76.7	1727
JUL		21.7	51.0				47.1	35.4	74.7		.3	76.5	1752
AUG		11.3	44.4				44.2	41.7	76.0		.5	71.1	1754
SEP		.5	35.7				35.2	37.2	65.5		.1	71.4	1755
OCT		3.4	34.1		.1		35.7	44.5	62.0			68.0	1757
NOV		.1	43.4		1.6	.1	40.3	46.8	50.4			66.5	1750
DEC		.0	39.6	.4	6.3		34.0	39.1	55.0	.3		66.3	1754
TOTALS		.4	45.0	.4	3.2	.1	43.1	37.5	64.7	.2	.2	71.7	17411

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WEATHER CONDITIONS

STATION NAME

STATION

STATION NAME

YEARS

YEARS

MONTH

MONTH

REPRESENTATIVE FREQUENCY OF OCCURRENCE OF WEATHER
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & OR DRIZZLE	SNOW AND OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JAN	1		10.7		2.3		12.3	14.3	9.3			11.3	700
	2		11.3	.6	1.7		12.7	14.7	1.4			12.7	700
	3		11.7	.7	1.9		14.3	16.3	1.7			12.7	700
	4		11.3		1.3		14.3	17.7	16.7			11.3	700
	5		11.3	.3	2.3		11.7	17.3	11.4			11.7	700
	6		11.7	.7	3.0		13.3	12.7	17.3			11.2	700
	7	.3	11.7		2.9		12.3	17.3	11.3	.3		11.2	700
	8		11.3	.3	1.3		11.3	11.3	10.7	.3		11.3	700
	9												
	10												
	11												
	12												
TOTALS		.3	10.3	.7	2.3		12.7	14.3	14.7	.3		12.7	470

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WEATHER CONDITIONS

STATION

STATION NAME

YEARS

MONTH

STATE FREQUENCY OF OCCURRENCE OF WEATHER
CONDITIONS FROM AIRLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS
1	7.1		.9		1.4		11.3	13.3	.6			1.9	100
2	7.4		7.4		1.7		8.6	14.7	1.3	.4		11.7	100
3		.4	5.7	.7	2.1		7.4	21.3	13.3			36.6	100
4	1		3.6	.4	4.3		11.1	13.6	20.6	.7		36.3	100
5	1		4.9		1.7		11.3	12.7	20.3	.7	.4	33.	100
6	1		3.6		3.6		11.7	17.3	17.4	.4	.4	31.1	100
7	1	.4	2.3		2.1		8.6	11.7	11.	.4	.4	12.	100
8	2	.4	4.9		2.1		10.3	14.3	7.3			32.3	100
9													100
10													100
11													100
12													100
TOTALS		.4	2.1	.1	2.7		10.3	14.7	14.6	.3	.2	37.7	334

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WEATHER CONDITIONS

[illegible]

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER
CONDITIONS FROM HOURLY OBSERVATIONS

[illegible]

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WEATHER CONDITIONS

STATION NAME: N. F. L. V. H. IN. J. 77-77 YEARS MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS
	01	1.4	7.4				7.4	7.4	7.7			13.4	249
	04		6.7				6.7	6.6	10.7			15.3	277
	07		8.6				8.6	12.7	27.6			35.3	277
	1		7.7				7.7	8.0	24.7			31.3	200
	17		8.6				8.6	4.3	19.6			23.3	270
	18	.7	5.3				6.3	4.0	18.6		.2	21.3	270
	20	1.3	5.7				5.7	4.2	20.3		.3	25.7	270
	27	.2	5.3				5.3	5.7	8.7			13.2	270
TOTALS		.4	6.9				6.4	7.1	16.9		.1	22.4	2700

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WEATHER CONDITIONS

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FOLLOWING 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & OR DRIZZLE	SNOW AND OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO OF OBS
1	1.1	5.0					5.0	11.7	24.7			11.7	37
2	.6	5.7					5.7	1.0	23.7			7.7	37
3	.3	5.7					5.7	21.7	53.7			1.0	37
4	.7	4.3					4.3	6.7	42.7			4.3	37
5	.7	5.7					5.7	1.0	41.7			47.3	37
6	1.7	5.7					6.7	2.0	43.7			4.3	37
7	1.7	1.0					2.7	1.0	41.7			44.7	37
8	2.3	5.7					2.3	.3	7.0			72.3	37
TOTALS	.1	5.0					5.0	.0	72.4			42.3	247

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WEATHER CONDITIONS

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ANALYSIS OF POLARITY IN THE RECORD OF WEATHER
CHANGING FROM HOURLY OBSERVATIONS

MONTH	HOURS (LST)	THUNDER- STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & OR DRIZZLE	SNOW AND OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
1	01	2.0	4.2				4.2	5.4	79.4			41.0	71
2	1.0		4.5				4.5	1.1	1.0			47.1	71
3	0.3	7.2					7.2	22.3	75.2			71.0	71
4	0.0	2.0					2.0	1.0	61.0			62.0	71
5	1.0	1.0	4.5				4.5	1.0	54.0			55.1	71
6	0.2	6.0					6.0	7.0	56.7			54.0	71
7	0.0	7.0					7.0	1.0	56.0			56.7	71
8	7.0	7.7					7.7	0.0	70.0			50.0	71
9													
10													
11													
12													
TOTALS		1.3	5.1				5.1	0.0	51.0			54.7	240

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WEATHER CONDITIONS

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STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & OR DRIZZLE	SNOW AND OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO OF OBS
1	2	1.0	4.0				4.0	14.0	40.0			47.4	71
2	5	.6	2.3				2.3	23.0	41.0			46.7	71
3	7	.6	2.0				2.7	31.0	60.0			64.7	71
4	1	.2	4.0				4.0	4.0	62.0			63.9	71
5	1	1.0	6.0				6.0	2.0	64.0			65.0	71
6	1	2.0	7.7				7.7	2.0	62.0			64.2	71
7	1	1.0	6.0				6.0	1.0	62.0			65.5	71
8	1	1.0	6.0				6.0	1.1	34.7			42.0	71
TOTALS		1.7	4.7				4.8	11.0	50.1			54.5	240

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WEATHER CONDITIONS

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STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF VARIOUS
CONDITIONS FROM HOUSEHOLD OBSERVATIONS.

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & OR DRIZZLE	SNOW AND OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS
1	0.1	1.3	5.				5.	11.3	24.7			41.3	100
2		.7	4.7				4.7	12.3	25.3			42.3	100
3		.2	2.				2.2	21.3	47.7			56.3	100
4			1.7				3.7	22.3	43.1			46.3	100
5		.7	9.				3.7	42.3	45.7			44.7	100
6		1.7	1.				5.7	5.	37.7			43.7	100
7			5.7				6.7	.3	32.7			37.	100
8		1.7	5.3				6.3	10.3	25.3			31.3	100
9													
10													
11													
12													
TOTALS		.9	6.9				5.5	1.3	35.7			41.9	240

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4

WEATHER CONDITIONS

STATION NAME

17-

197

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (U.S.T.)	THUNDER- STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & OR DRIZZLE	SNOW AND OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS
1	01	.3	7.7				7.7	1.0	13.0			1.3	1
	02	.3	12.0				1.3	1.0	14.0			2.3	1
	03		6.7				6.7	2.0	27.4			4.0	1
	1		7.7				7.7	2.0	34.0			7.0	1
	11		5.0				5.0	.3	24.0			27.7	1
	14	.6	6.0				6.6	1.0	19.0			23.0	1
	15	.3	7.1				7.1	1.5	17.7			21.7	1
	16	.6	7.1				7.7	2.0	12.0			1.0	1
TOTALS		.3	7.1				7.6	11.0	20.0			27.9	24.0

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WEATHER CONDITIONS

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER
CONDITIONS FROM HOURLY OBSERVATION.

MONTH	HOURS (LST)	THUNDER- STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & OR DRIZZLE	SNOW AND OR SLEET	HAIL	% OF OBS WITH PRECIP	FOG	SMOKE AND OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS
	01	0.5	7.0				7.7	10.0	17.0			34.7	7.0
	02		4.0				4.0	10.0	17.0			31.0	7.0
	03	0.5	10.0				10.5	24.0	37.0			42.5	7.0
	04		4.0				4.0	10.0	30.0			44.0	7.0
	05		7.0				7.0	10.0	37.0			54.0	7.0
	06		7.0				14.0	10.0	33.0			57.0	7.0
	07		10.0				10.0	10.0	30.0			50.0	7.0
	08		10.0				10.0	10.0	30.0			50.0	7.0
	09		10.0				10.0	10.0	30.0			50.0	7.0
	10		10.0				10.0	10.0	30.0			50.0	7.0
	11		10.0				10.0	10.0	30.0			50.0	7.0
	12		10.0				10.0	10.0	30.0			50.0	7.0
	13		10.0				10.0	10.0	30.0			50.0	7.0
	14		10.0				10.0	10.0	30.0			50.0	7.0
	15		10.0				10.0	10.0	30.0			50.0	7.0
	16		10.0				10.0	10.0	30.0			50.0	7.0
	17		10.0				10.0	10.0	30.0			50.0	7.0
	18		10.0				10.0	10.0	30.0			50.0	7.0
	19		10.0				10.0	10.0	30.0			50.0	7.0
	20		10.0				10.0	10.0	30.0			50.0	7.0
	21		10.0				10.0	10.0	30.0			50.0	7.0
	22		10.0				10.0	10.0	30.0			50.0	7.0
	23		10.0				10.0	10.0	30.0			50.0	7.0
	24		10.0				10.0	10.0	30.0			50.0	7.0
	25		10.0				10.0	10.0	30.0			50.0	7.0
	26		10.0				10.0	10.0	30.0			50.0	7.0
	27		10.0				10.0	10.0	30.0			50.0	7.0
	28		10.0				10.0	10.0	30.0			50.0	7.0
	29		10.0				10.0	10.0	30.0			50.0	7.0
	30		10.0				10.0	10.0	30.0			50.0	7.0
	31		10.0				10.0	10.0	30.0			50.0	7.0
TOTALS		0.2	0.1				0.2	1.0	21.0			32.0	27.0

NAVWEASERVCOM

WEATHER CONDITIONS

[illegible]PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & OR DRIZZLE	SNOW AND OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO OF OBS
JAN	21		1.0		.8		1.6	18.1	1.1			20.1	71
FEB	24		11.0				11.0	19.2	7.4			26.0	71
MAR			11.2		.1		11.3	22.5	11.9			33.3	71
APR	1		11.		1.		11.3	16.7	21.7			36.5	71
MAY	17		1.3		1.1		13.3	14.2	16.1			29.7	71
JUN	13		13.0		1.0		13.7	14.3	12.9			26.9	71
JUL	1		12.0		.1		12.8	15.7	1.1			19.1	71
AUG	1		9.7		.1		9.7	14.3	.0			14.8	71
SEPT													
OCT													
NOV													
DEC													
TOTALS			11.0		.9		12.1	16.4	1.2			25.1	2475

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WEATHER CONDITIONS

STATION NAME: NAVY AIRCRAFT YEARS: 1961 MONTH: ALL

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER
CONDITIONS FROM HOURLY OBSERVATION

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & OR DRIZZLE	SNOW AND OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS WITH OBS' TO VISION	TOTAL NO. OF OBS
JAN	ALL	0.7	10.0	0.0	2.0		12.0	14.0	14.0	0.0		27.0	24.0
FEB		0.0	0.0	0.0	2.0		10.0	14.0	14.0	0.0	0.0	27.0	24.0
MAR		0.0	11.0	0.0	1.0		12.0	14.0	17.0	0.0	0.0	31.0	24.0
APR		0.0	0.0				0.0	0.0	10.0		0.0	21.0	24.0
MAY		1.0	0.0				0.0	14.0	10.0			24.0	24.0
JUN		0.0	0.0				0.0	0.0	10.0			21.0	24.0
JUL		0.0	0.0				0.0	0.0	10.0			21.0	24.0
AUG		0.0	0.0				0.0	11.0	10.0			21.0	24.0
SEP		0.0	0.0				0.0	1.0	0.0			1.0	24.0
OCT		0.0	0.0				0.0	11.0	10.0			21.0	24.0
NOV		0.0	0.0				0.0	1.0	10.0			11.0	24.0
DEC		0.0	0.0				0.0	1.0	10.0			11.0	24.0
TOTALS		0.7	11.0	0.0	2.0		12.0	14.0	14.0	0.0	0.0	31.0	240.0

NAVWEASERVCOM

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PERCENTAGE FREQUENCY OF WIND DIRECTION
VS. WEATHER CONDITIONS

STATION NAME NORFOLK, VIRGINIA

PERIOD JANUARY 1973-DECEMBER 1992

STATION

ALL

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET SHOWERS ICE CRYSTALS	SNOW GRAINS PELLETS SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SMOKE	WINDY
N	11.6	2.4	3.9		2.4	5.4		0.3	21.7	1.6	11.7	0.3	59.7
NNE	11.3	1.1	6.2	1.5	0.5	4.6			14.3	2.2	20.1	1.6	55.7
NE	11.6		0.1			2.1			11.5	3.1	27.8		47.7
ENE	7.1					1.1			6.5	1.1	27.3		41.4
E	11.6			1.6		1.6			6.5	1.6	12.7		60.3
ESE	7.7		1.1	2.1		7.1			11.3		17.1		53.2
SE	0.0					4.7			15.4	6.3	18.8		53.7
SSE	11.6	3.7	1.2	1.2					12.9	7.1	12.8		63.7
S	0.0	4.3	0.6						13.7	4.3	17.4		54.7
SSW	0.0	1.2	1.7		0.6				7.0	2.6	15.1		77.7
SW	4.7	1.3				0.8			5.8	1.9	16.2		73.7
WSW	4.7	0.5	2.7		0.5	0.5			6.3	1.1	12.8		77.7
W	4.7	1.2	1.2	0.4		1.2			10.8	0.8	6.9		80.0
WNW	0.0		1.2			0.7			6.1	0.8	11.8		87.1
NW	7.7		1.6		0.8	3.3			6.2	0.8	7.4		87.7
NNW	7.4	0.6	1.3			4.8			11.7	1.7	13.1		74.4
VARIABLE	7.1	0.0	0.3	0.0	0.0	0.0	0.0	0.0	14.7	5.1	14.7	0.0	52.7
CALM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	106	23	43	4	7	13		1	309	57	358	4	1610
% TOTAL	100	20	100	3	6	20		0	12.5	2.3	14.5	0	66.0

TOTAL NUMBER OF OBSERVATIONS

2,476

NAVWEASERVCOM

TOTAL NUMBER OF OBSERVATIONS

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PERCENTAGE FREQUENCY OF WIND DIRECTION
VS. WEATHER CONDITIONS

WEATHER	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	TOTAL
CA											
CU											
SC											
NS											
CB											
TC											
ST											
BR											
FG											
DR											
SS											
SA											
SK											
WV											
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W											
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SA											
NS											
AS											
W											
TOTAL	17	17	17	17	17	17	17	17	17	17	17

TOTAL NUMBER OF OBSERVATION

TOTAL NUMBER OF OBSERVATIONS

PERCENTAGE FREQUENCY OF WIND DIRECTION VS. WEATHER CONDITIONS

DATE _____

JANUARY 1973-DECEMBER 1982

JUL 2 1964

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREZZING RAIN FREEZING DRIZZLE	SLEET THUNDER ICE CRYSTALS	ICE DRIFT PELLETS SHOWERS	HALE SNOW HAIL	THUNDER	ETC.	ON FIRE DURING F.	SMOKE HAZE	REMARKS NEW	BAROMETER INCHES
N	.	.7						5.5	11.1	.7	41.7		45.1
NNE	.	3.1	.					5.5	7.5	.5	39.7		41.5
NE	.	1.6						.	7.5		35.3		50.5
ENE	.	3.1	.					.7	5.4	1.4	33.4		54.5
E	.	1.2						1.2	5.4	2.4	31.3		42.7
ESE	.	4.7						2.5	7.5	1.7	23.5		67.7
SE	.	1.5						5.7	7.5	.4	23.3		57.4
SSE	.	3.4						1.7	5.5	.5	35.5		43.6
S	.	5.4						1.5	7.2	2.5	36.4		57.7
SSW	.	3.7						1.7	5.4	2.7	45.1		47.1
SW	.	1.7						.	5.4	1.4	37.4		71.4
WSW	.	4.5						1.4	7.4	4.7	55.4		75.7
W	.	1	.					.	5.1	2.	46.6		45.5
WNW	.	3.3							1		19.1		76.5
NW	1.	7.1	4.5					3.5	14.5		37.1		53.7
NNW	1.	4.3	1.1						1.1		25.3		65.7
VARIABLE CALM	2.	2.2							1.4	5.4	37.4		52.6
TOTAL		75	17					7	105	51	917		1797
TOTAL	.1	3.3	.5					1.1	7.4	2.1	38.3		53.5

TOTAL NUMBER OF OBSERVATIONS

NAVWEASERVCOM

PERCENTAGE FREQUENCY OF WIND DIRECTION
VS. WEATHER CONDITIONS

1.77 50 FEET, VIND: 37 JANUARY 1973-31 DECEMBER 1962 JULY ALL

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLUSH SHOWERS OR CRYSTALS	SNOW GRAPE PELLETS SHOWERS	HAIR SMALL HAIL	THUNDER	FOG	DE FOG DRIZZLE FOG	SNOW HAIR	SMALL SNOW	PERCENT OBSERVATIONS
N		1.1						1.1	4.5	1.7	57.4		42.1
NNE		0.5							2.5	1.7	42.3		50.5
NE	1.1	0.3						0.5	0.6	3.2	37.1		50.5
ENE		0.4						0.3	0.3	0.7	34.5		42.0
E	1.1	1.4						1.4	4.2	0.7	41.3		46.7
ESE		0.5						2.2	1.5	4.3	47.8		45.7
SE	3.4	0.5						3.7	2.4	2.4	61.5		35.4
SSE	1.1	0.5						4.7	4.7	1.1	36.7		58.6
S	1.1	7.0						7.7	4.5	3.7	48.7		44.2
SSW		2.1						0.5	0.5	2.4	56.1		41.0
SW	1.1	6.1						1.3	7.1	4.3	54.2		33.8
WSW		0.3						3.7	1.0	4.6	61.2		71.4
W	1.1	0.4						4.3	6.4	2.0	65.8		25.4
WNW	1.1	7.5	1.5					7.7	3.5		57.3		43.8
NW	5.5	4.5						6.5	0.1		54.5		35.8
NNW	1.1	1.7	1.7					7.4	7.5	1.7	61.5		27.1
VARIABLE								7.2	5.6	4.4	44.2		46.1
CALM													
TOTAL	2.7	26	3					57	143	66	1273		1046
% TOTAL	1.1	3.0	.1					2.3	4.5	2.7	51.4		43.1

TOTAL NUMBER OF OBSERVATIONS

2,476

NAVWEASERVCOM

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Figure 1. Schematic representation of the experimental design. The subjects were divided into two groups: the control group (CG) and the experimental group (EG). The CG was exposed to a control environment (CE) and the EG was exposed to an experimental environment (EE). The EG was further divided into two subgroups: the EG1 and the EG2. The EG1 was exposed to a control environment (CE) and the EG2 was exposed to an experimental environment (EE). The EG1 and the EG2 were further divided into two subgroups: the EG1.1 and the EG1.2, and the EG2.1 and the EG2.2, respectively. The EG1.1 and the EG1.2 were exposed to a control environment (CE) and the EG2.1 and the EG2.2 were exposed to an experimental environment (EE). The EG1.1 and the EG1.2 were further divided into two subgroups: the EG1.1.1 and the EG1.1.2, and the EG1.2.1 and the EG1.2.2, respectively. The EG2.1 and the EG2.2 were further divided into two subgroups: the EG2.1.1 and the EG2.1.2, and the EG2.2.1 and the EG2.2.2, respectively. The EG1.1.1 and the EG1.1.2 were exposed to a control environment (CE) and the EG1.2.1 and the EG1.2.2 were exposed to an experimental environment (EE). The EG2.1.1 and the EG2.1.2 were exposed to a control environment (CE) and the EG2.2.1 and the EG2.2.2 were exposed to an experimental environment (EE).

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PERCENTAGE FREQUENCY OF WIND DIRECTION
VS. WEATHER CONDITIONS

1977 WINDY, VIRGINIA JANUARY 1973-DECEMBER 1980 NEW HLF ALL

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEDOM FREEZING DRIZZLE	CLAY SHOWERS DRIZZLE	ON PELLETS SHOWERS	HAIR TOTAL	THUNDER	ICE TOTAL	ICE TOTAL	ICE TOTAL	ICE TOTAL	ICE TOTAL
N	1.0	1.1	3.7					.4	11.5			14.5	20.5
NNE	1.0	1.0	4.1					.7	5.4	.5		28.1	25.5
NE	.5	.3	4.1						24.0	.8		28.2	68.5
ENE	.5		.9						24.0	.9		28.5	47.5
E	11.0		1.9						21.4			26.7	52.5
ESE	7.0		11.1						14.0	3.7		35.7	53.7
SE	.5	2.0							10.3	5.1		20.6	68.5
SSE	.5	1.5	2.1						7.8	4.3		20.6	46.7
S	7.4	3.5	1.0					.5	1.2	.5		18.5	51.5
SSW	.5	2.0							12.7	1.5		21.1	46.5
SW	2.0	1.9							10.4	1.5		24.4	48.6
WSW	.5								12.1	.7		21.3	47.4
W	.5	1.2	1.2						4.7	.5		10.1	1.5
WNW	.5	1.5	5.3						12.2	1.5		8.5	77.6
NW	.5	.5	7.6						5.2			7.5	56.7
NNW	.5	.5	7.6						11.7	.6		11.3	77.7
VARIABLE									11.7	5.3		22.3	42.1
CALM													
TOTAL	1.0	1.2	4.1					.1	33.2	7.1		47.4	15.4
TOTAL	.5	1.2	7.7					.1	15.1	1.3		16.8	45.5

TOTAL NUMBER OF OBSERVATIONS

7,309

NAVWEASERVCOM

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TOTAL NUMBER OF OBSERVATIONS

NAYWEASERVCOM

PERCENTAGE FREQUENCY OF WIND DIRECTION
VS. WEATHER CONDITIONS

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET SHAWLS PELLETS SHAWLS	SNOW GRAPE PELLETS SHAWLS	HAZ SMALL CLOUDS	THUNDER	FOG SMALL CLOUDS	SMALL CLOUDS	WINDY	OTHER
N	.1	1.6	2.7		.1	1.7		.1	1.1	.7	26.3	.3
NNE	.1	1.1	2.2	.7	.4	1.7		.2	1.1	1.4	22.2	.6
NE	.1	1.2	1.6	.1	.4	.9		.7	1.3	1.4	24.1	.1
ENE	.1	1.7	1.1		.7	.7		.3	1.5	1.7	23.7	
E	.1	2.6	1.3	.1	.3	.6		.6	1.3	1.4	21.3	
ESE	.1	2.7	1.2	.7		.7		1.7	1.5	1.7	27.3	
SE	.1	3.5	.4			.3		1.2	1.3	3.1	27.1	
SSE	.1	3.5	.6	.1		.1		1.7	.4	2.4	22.4	
S	.1	2.5	.4					1.3	.1	3.7	27.5	
SSW	.1	2.1	.2			.1		.7	.6	2.7	22.3	
SW	1.0	2.6	.7			.1		.7	7.1	2.5	36.4	
WSW	.1	2.6	.5		.1	.1		.7	7.3	2.1	37.2	.1
W	2.0	2.7	.7	.1		.4		.9	7.3	1.7	23.3	
WNW	.1	2.2	1.6			.7		1.1	7.5	.7	15.3	
NW	.4	1.7	1.1		.1	.3		.7	7.2	1.3	14.9	
NNW	.2	1.6	.4			.7		.4	.5	1.1	17.1	
VARIABLE												
CALM												
TOTAL	7.14	6.36	7.11	1.3	.29	1.5		21.0	26.82	6.23	77.15	.71
% TOTAL	4.0	2.6	1.1	.6	.1	.7		7.7	13.2	2.1	25.4	.1

TOTAL NUMBER OF OBSERVATIONS 2,307

NAVWEASERVCOM

B

B

B

DERIVED FROM DAILY BRIEFING

DERIVED FROM DAILY OBSERVATION.

DERIVED FROM DAILY PRESIDENTIAL

- B

B

Snow depth at 0800 LST
Snow depth at 1230 GCT
Snow depth at 1200 GCT

Snow depth at 0030 GCT
Snow depth at 1230 GCT
Snow depth at 1200 GCT

B

DAILY AMOUNTS

PERCENTAGE FREQUENCY OF
(FROM DAILY OBSERVATIONS)

STATION

STATION NAME

YEARS

	AMOUNTS (INCHES)															PERCENT OF DAYS WITH MEASUR- ABLE AMTS	TOTAL NO OF OBS	MONTHLY AMOUNTS (INCHES)		
	NONE	TRACE	0.04	0.5	1.0	2.5	5.0	10.0	25.0	50.0	100.0	200.0	500.0	1000.0	OVER 1000			MEAN	GREATEST	LEAST
PRES.P.	NONE	TRACE	0.04	0.5	1.0	2.5	5.0	10.0	25.0	50.0	100.0	200.0	500.0	1000.0	OVER 1000					
SNOWFALL	NONE	TRACE	0.04	0.5	1.0	2.5	5.0	10.0	25.0	50.0	100.0	200.0	500.0	1000.0	OVER 1000					
SNOW DEPTH	NONE	TRACE	0.04	0.5	1.0	2.5	5.0	10.0	25.0	50.0	100.0	200.0	500.0	1000.0	OVER 1000					
JAN																				
FEB																				
MAR																				
APR																				
MAY																				
JUN																				
JUL																				
AUG																				
SEP																				
OCT																				
NOV																				
DEC																				
ANNUAL																				

NAVWEASFRVCOM

DAILY AMOUNTS

PERCENTAGE FREQUENCY OF
(FROM DAILY OBSERVATIONS)

STATION

STATION NAME

YEARS

AMOUNTS (INCHES)														PERCENT OF DAYS WITH MEASUR- ABLE AMTS	TOTAL NO OF OBS	MONTHLY AMOUNTS INCHES		
PRECIP	NONE	TRACE	01	02-05	06-10	11-25	26-50	51-100	101-250	251-500	501-1000	1001-2000	OVER 2000			MEAN	GREATEST	LEAST
SNOWFALL	NONE	TRACE	0-0.4	0.5-1.4	1.5-2.4	2.5-3.4	3.5-4.4	4.5-6.4	6.5-10.4	10.5-14.4	14.5-25.4	25.5-50.4	OVER 50.4					
SNOW DEPTH	NONE	TRACE	1	2	3	4-6	7-7	13-24	25-36	37-48	49-60	61-70	OVER 70					
JAN	.	.	1	19	1	.	.	.	.	.	.	.	.	1	1	1	.
FEB	.	.	.	1	.	.	.	.	.	.	.	.	.	1	1	.	.
MAR	.	.	.	1	.	.	.	.	.	.	.	.	.	1	1	.	.
APR	1	1	.	.	
MAY	1	1	.	.	
JUN	1	1	.	.	
JUL	1	1	.	.	
AUG	1	1	.	.	
SEP	1	1	.	.	
OCT	1	1	.	.	
NOV	1	1	.	.	
DEC	1	1	.	.	
ANNUAL	1	1	.	.	

DAILY AMOUNTS

PERCENTAGE FREQUENCY OF
(FROM DAILY OBSERVATIONS)

STATION _____ STATION NAME _____ YEARS _____

AMOUNTS (INCHES)														PERCENT OF DAYS WITH MEASUR- ABLE AMTS	TOTAL NO OF OBS	MONTHLY AMOUNTS INCHES				
PRECIP	NONE	TRACE	0	02.05	06.10	11.25	26.50	51.00	101.250	251.500	501.000	1001.2000	OVER 20.00			MEAN	GREATEST	LEAST		
SNOWFALL	NONE	TRACE	0	04	15	24	34	44	54	104	154	254	354	OVER 54						
SNOW DEPTH	NONE	TRACE	2	3	4	6	7	12	13	24	25	36	37	48	49	60	61	72	OVER 120	
JAN
FEB
MAR
APR
MAY
JUN
JUL
AUG
SEP
OCT
NOV
DEC
ANNUAL

EXTREME VALUES

EXTREME VALUES

STATION NAME

 $\gamma = \Delta \bar{R}_S$

Figure 1 is a 12-month grid showing the mean and standard deviation of monthly precipitation (mm) for the period 1951-1980. The grid is organized by month (JAN to DEC) and year (1951 to 1980). The legend indicates that the top line of each cell represents the mean precipitation and the bottom line represents the standard deviation. The data shows a general trend of increasing precipitation over time, with a significant increase in the late 1970s and early 1980s.

5705

EXTREME VALUES

1. *Journal of the American Medical Association*, 1997; 278: 1029-1033.

STATION NAME

VIARS

CLIMATOGRAPH

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
MEAN °F	-10	-8	-5	-2	5	25	60	55	40	20	-5	-15
PRECIPITATION (mm)	10	15	10	10	15	35	40	20	15	10	10	10

MEAN
° F
TOTAL OBS.

5405

EXTREME VALUES

FROM DAILY OBSERVATIONS

[illegible]

100-44261-1A-2464

[illegible]

SMOS

EXTREME VALUES

FROM DAILY OBSERVATION.

STATION

STATION NAME

YEARS

THE PUBLIC AFFAIRS OF THE UNITED STATES

[illegible]

SMOS

EXTREME VALUES

FROM DAILY OBSERVATIONS.

STATION

STATION NAME

YEARS

[illegible]

SMOS

EXTREME VALUES

FROM DAILY OBSERVATIONS

STATION

STATION NAME

YEARS

ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED

[illegible]

SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

EXTREME VALUES

NOV 1987
FROM DAILY OBSERVATIONS

STATION ASHEVILLE, NORTH CAROLINA STATION NAME ASHEVILLE YEARS 1987

WIND SPEED AND DIRECTION

MONTH YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
1													
2													
3													
4													
5													
6													
7													
8													
9													
10													
11													
12													
13													
14													
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23													
24													
25													
26													
27													
28													
29													
30													
31													
MEAN													
S D													
TOTAL OBS													

SMOS

EXTREME VALUES

YEARS

[illegible]

SMOS

U.S. AIR FORCE SERVICE DETACHMENT
CORONA, CALIFORNIA

DAILY EXTREME AMOUNTS

STATION		YEAR		MONTH		YEAR		MONTH	
NAME		NUMBER		NAME		NUMBER		NAME	
PRECIPITATION		SNOWFALL		PRECIPITATION		SNOWFALL		PRECIPITATION	
GREATEST		GREATEST		GREATEST		GREATEST		GREATEST	
DAY	INCHES	MM	DATE	DAY	INCHES	MM	DATE	DAY	INCHES
1	1.0	25	1977	1	1.0	25	1977	1	1.0
2	1.0	25	1977	2	1.0	25	1977	2	1.0
3	1.0	25	1977	3	1.0	25	1977	3	1.0
4	1.0	25	1977	4	1.0	25	1977	4	1.0
5	1.0	25	1977	5	1.0	25	1977	5	1.0
6	1.0	25	1977	6	1.0	25	1977	6	1.0
7	1.0	25	1977	7	1.0	25	1977	7	1.0
8	1.0	25	1977	8	1.0	25	1977	8	1.0
9	1.0	25	1977	9	1.0	25	1977	9	1.0
10	1.0	25	1977	10	1.0	25	1977	10	1.0
11	1.0	25	1977	11	1.0	25	1977	11	1.0
12	1.0	25	1977	12	1.0	25	1977	12	1.0
13	1.0	25	1977	13	1.0	25	1977	13	1.0
14	1.0	25	1977	14	1.0	25	1977	14	1.0
15	1.0	25	1977	15	1.0	25	1977	15	1.0
16	1.0	25	1977	16	1.0	25	1977	16	1.0
17	1.0	25	1977	17	1.0	25	1977	17	1.0
18	1.0	25	1977	18	1.0	25	1977	18	1.0
19	1.0	25	1977	19	1.0	25	1977	19	1.0
20	1.0	25	1977	20	1.0	25	1977	20	1.0
21	1.0	25	1977	21	1.0	25	1977	21	1.0
22	1.0	25	1977	22	1.0	25	1977	22	1.0
23	1.0	25	1977	23	1.0	25	1977	23	1.0
24	1.0	25	1977	24	1.0	25	1977	24	1.0
25	1.0	25	1977	25	1.0	25	1977	25	1.0
26	1.0	25	1977	26	1.0	25	1977	26	1.0
27	1.0	25	1977	27	1.0	25	1977	27	1.0
28	1.0	25	1977	28	1.0	25	1977	28	1.0
29	1.0	25	1977	29	1.0	25	1977	29	1.0
30	1.0	25	1977	30	1.0	25	1977	30	1.0
31	1.0	25	1977	31	1.0	25	1977	31	1.0
Monthly	1.0	25	1977	Monthly	1.0	25	1977	Monthly	1.0

* ALSO ON EARLIER YEARS
T TRACE, AN AMOUNT TOO SMALL TO MEASURE
BLANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD OF RECORD

DIRNAVOCEANMET-SMOS

4

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

DAILY EXTREME AMOUNTS

STATION NAME

YEARS

MONTH

MONTH

DAY	TEMPERATURE GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1			1977			1977
2			1977			1977
3			1977			1977
4			1977			1977
5			1977			1977
6			1977			1977
7			1977			1977
8			1977			1977
9			1977			1977
10			1977			1977
11			1977			1977
12			1977			1977
13			1977			1977
14			1977			1977
15			1977			1977
16			1977			1977
17			1977			1977
18			1977			1977
19			1977			1977
20			1977			1977
21			1977			1977
22			1977			1977
23			1977			1977
24			1977			1977
25			1977			1977
26			1977			1977
27			1977			1977
28			1977			1977
29			1977			1977
30			1977			1977
31			1977			1977
Monthly						

DAY	PRECIPITATION GREATEST			WIND GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1			1977			1977
2			1977			1977
3			1977			1977
4			1977			1977
5			1977			1977
6			1977			1977
7			1977			1977
8			1977			1977
9			1977			1977
10			1977			1977
11			1977			1977
12			1977			1977
13			1977			1977
14			1977			1977
15			1977			1977
16			1977			1977
17			1977			1977
18			1977			1977
19			1977			1977
20			1977			1977
21			1977			1977
22			1977			1977
23			1977			1977
24			1977			1977
25			1977			1977
26			1977			1977
27			1977			1977
28			1977			1977
29			1977			1977
30			1977			1977
31			1977			1977
Monthly						

ALSO ON EARLIER YEARS

TRACE: AN AMOUNT TOO SMALL TO MEASURE

BLANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD OF RECORD

DIRNAVOCEANMET-SMOS

4

NAVY WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

DAILY EXTREME AMOUNTS

STATION NAME _____ YEARS _____
 MONTH _____

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	1.0	25	1967			
2	1.0	25	1967			
3	1.0	25	1967			
4	1.0	25	1967			
5	1.0	25	1967			
6	1.0	25	1967			
7	1.0	25	1967			
8	1.0	25	1967			
9	1.0	25	1967			
10	1.0	25	1967			
11	1.0	25	1967			
12	1.0	25	1967			
13	1.0	25	1967			
14	1.0	25	1967			
15	1.0	25	1967			
16	1.0	25	1967			
17	1.0	25	1967			
18	1.0	25	1967			
19	1.0	25	1967			
20	1.0	25	1967			
21	1.0	25	1967			
22	1.0	25	1967			
23	1.0	25	1967			
24	1.0	25	1967			
25	1.0	25	1967			
26	1.0	25	1967			
27	1.0	25	1967			
28	1.0	25	1967			
29	1.0	25	1967			
30	1.0	25	1967			
31	1.0	25	1967			
Monthly	1.0	25	1967			

DAY	PRECIPITATION GREATEST			WIND SPEED	WIND DIRECTION	WIND GUST
	INCHES	MM	DATE			
1	1.0	25	1967			
2	1.0	25	1967			
3	1.0	25	1967			
4	1.0	25	1967			
5	1.0	25	1967			
6	1.0	25	1967			
7	1.0	25	1967			
8	1.0	25	1967			
9	1.0	25	1967			
10	1.0	25	1967			
11	1.0	25	1967			
12	1.0	25	1967			
13	1.0	25	1967			
14	1.0	25	1967			
15	1.0	25	1967			
16	1.0	25	1967			
17	1.0	25	1967			
18	1.0	25	1967			
19	1.0	25	1967			
20	1.0	25	1967			
21	1.0	25	1967			
22	1.0	25	1967			
23	1.0	25	1967			
24	1.0	25	1967			
25	1.0	25	1967			
26	1.0	25	1967			
27	1.0	25	1967			
28	1.0	25	1967			
29	1.0	25	1967			
30	1.0	25	1967			
31	1.0	25	1967			
Monthly	1.0	25	1967			

DIRNAVOCEANMET-SMOS

* ALSO ON EARLIER YEARS
 * TRACE, AN AMOUNT TOO SMALL TO MEASURE
 BLANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD OF RECORD

NAVY WEATHER SERVICE, 1000 W. 10TH ST.,
ASHEVILLE, NORTH CAROLINA

DAILY EXTREME AMOUNTS

[illegible]

2. **BEFORE AN AMOUNT TOO SMALL TO MEASURE**

^a A dash indicates no snowfall; all other values indicate inches of snow.

DIRNAVOCEANMET-SMOS

1. NAME OF STATION (SEE INSTRUCTIONS)
 2. NAME OF COMMANDER

DAILY EXTREME AMOUNTS

STATION NAME		DATE		SNOWFALL (GREATEST)	
NO.	NAME	DAY	MONTH	INCHES	FEET
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
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96					
97					
98					
99					
100					

NO.	NAME	DAY	MONTH	INCHES	FEET
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
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95					
96					
97					
98					
99					
100					

DIRNAVOCEANMET-SMOS

1. NAME OF STATION (SEE INSTRUCTIONS)
 2. NAME OF COMMANDER

THE NATIONAL ARCHIVES SERVICE FOR THE GOVERNMENT
OF THE UNITED STATES OF AMERICA

The image shows two pages of a ledger. The left page has columns for Date, Description, and Amount. The right page has columns for Date, Description, and Amount. The entries are handwritten in cursive script. The ledger is filled with numerous entries, mostly dated in the 18th century.

Date	Description	Amount
1780
1781
1782
1783
1784
1785
1786
1787
1788
1789
1790
1791
1792
1793
1794
1795
1796
1797
1798
1799
1800

$\mathcal{A} = \{A_1, \dots, A_n\}$ is a \mathcal{C} - \mathcal{A} -basis of \mathcal{A} if and only if \mathcal{A} is a \mathcal{C} - \mathcal{A} -basis of \mathcal{A} and \mathcal{A} is a \mathcal{C} - \mathcal{A} -basis of \mathcal{A} .

SURFACE WINDS

C

- N.B.: *Warning:* - Directional specifications, "peak gust data are recorded only at stations with continuous 10-minute wind-speed recording."

- A separate category is provided on the form for variable winds, which are reported in some data sources. In these data where light and variable winds are reported with a direction but with speeds given, the speed will be categorized in the appropriate groups opposite the column headed VARIABLE.

- (1) Annual - all hours combined
- (2) By month - all hours combined
- (3) By month - by standard 3-hour groups

- C - 1

EXTREME VALUES

NOTES

STATION NAME

 $\gamma \vdash \Delta R \gamma$

(MPH 1949-1955)

[illegible]

SACS

EXTREME VALUES

STATION NAME

YEARS

[illegible]

SALES

EXTREME VALUES

YEARS

(MPH 1949-1955)

[illegible] $\gamma_1, \gamma_2, \gamma_3, \gamma_4$

4

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION _____ STATION NAME _____ YEARS _____ MONTH _____
CLASS _____ HOURS _____
CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS _____

SMOS

4

NAVAL WEATHER BUREAU
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION _____ STATION NAME _____ YEARS _____ MONTH _____
CLASS _____
CONDITION _____
HOURS LST _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS _____

SMOS

4

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION _____ STATION NAME _____ YEARS _____ MONTH _____
 CLASS _____
 CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS _____

SMOS

4

NAVAL WEATHER SERVICE
DEPARTMENT
ASHTONVILLE, MD

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION _____ STATION NAME _____ YEARS _____ MONTH _____
CLASS _____ HOURS _____
CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS _____

SMOS

4

NATIONAL WEATHER SERVICE
CHICAGO, ILLINOIS
AUGUST 1962

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION _____ STATION NAME _____ YEARS _____ MONTH _____
 CLASS _____ HOUR _____
 CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

SMOS

4

This report was prepared by the
 U.S. Navy Hydrographic Office
 Washington, D.C. 20375

PERCENTAGE FREQUENCY OF WIND
 DIRECTION AND SPEED
 (FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION

STATION NAME

YEAR

MONTH

CLASS

HOURS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS

SMOS

4

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

YEARS

MONTH

CLASS

HOURS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS

SMOS

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WIND RECORDING FORM
 1-1-1960
 1-1-1960

PERCENTAGE FREQUENCY OF WIND
 DIRECTION AND SPEED
 (FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION _____ STATION NAME _____ YEARS _____

CLASS _____ HOURS _____

CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS

SMOS

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SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION _____ STATION NAME _____ YEAR _____

CLASS _____

CONDITION _____

SPEED (KNTS) DIR	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS

SMOS



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PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION

STATION NAME

DATE

TIME

CLAS

REMARKS

CONDITION

SPEED KNTS DIR	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS

SMOS

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SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION _____ STATION NAME _____ YEARS _____ MONTH _____
CLASS _____ HOURS _____
CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS

SMOS

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NAVAL WEATHER SERVICE
 PERSIAN GULF
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PERCENTAGE FREQUENCY OF WIND
 DIRECTION AND SPEED
 (FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION

STATION NAME

YEARS

MONTH

CLASS

HOURS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS

SMOS

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NAVAL WEATHER SERVICE
OFFICE OF THE
NAVY SECRETARY

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION _____ STATION NAME _____ YEARS _____ MONTH _____
CLASS _____ HOURS _____
CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	✓	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS

SMOS

4

NAME OF STATION
 LOCATION
 DATE OF OBSERVATION

PERCENTAGE FREQUENCY OF WIND
 DIRECTION AND SPEED
 (FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION

STATION NAME

YEARS

MONTH

CLASS

CONDITION

HOURS

DATE

SPEED (KNTS) DIR	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS

SMOS

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NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION _____ STATION NAME _____ YEARS _____ MONTH _____
CLASS _____ HOURS _____
CONDITION _____

SPEED (KNTS) DIR	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 54	≥ 56	%	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS

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NAVAL WEATHER SERVICE
 DETAIL REPORT
 AIRCRAFT

PERCENTAGE FREQUENCY OF WIND
 DIRECTION AND SPEED
 (FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION _____ STATION NAME _____ YEARS _____ MONTH _____
 CLASS _____ HOURS _____
 CONDITION _____

SPEED (KNTS) DIR	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS

SMOS

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NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION _____ STATION NAME _____ YEARS _____ MONTH _____

CLASS _____ HOURS _____

CONDITION _____

SPEED (KNTS) Dir.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS _____

SMOS

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NAVAL WEATHER SERVICE
ETTERBERRY
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION _____ STATION NAME _____ YEARS _____ MONTH _____
CLASS _____ HOURS _____
CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS _____

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NAVAL WEATHER SERVICE
STATION REPORT
WIND SPEED LOG

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION _____ STATION NAME _____ YEAR _____ MONTH _____

CLASS _____ NO. OF _____

CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS

SMOS

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NAVAL WEATHER SERVICE
DETACHMENT
AGNEWVILLE

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION _____ STATION NAME _____ YEARS _____ MONTH _____
CLASS _____ HOURS _____
CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS

SMOS

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NAVAL OBSERVATORY
WASHINGTON
ADRIAN L. T. 100

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION _____ STATION NAME _____ YEAR _____

CLASS _____

CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	56 - 63	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS

SMOS

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Form No. 1-61
 (Rev. 1-61)
 U.S. GOVERNMENT PRINTING OFFICE

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION _____ STATION NAME _____ YEARS _____

CLASS _____ HOURS _____

CORRECTION _____

SPEED KNTS) DIR	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS _____

SMOS

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

YEARS

MONTH

CLASS

HOURS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS

SMOS

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SURFACE WINDS

STATION	STATION NAME	YEARS
	CLASS	HOURS
	CONDITION	

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TOTAL NUMBER OF OBSERVATIONS

SMQS

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SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

YEAR

MONTH

CLASS

NUMBER OF HOURS

CONDITION

SPEED (KNTS) DIR	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS

SMALL



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TABLE 11-1
PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEEDPERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION	STATION NAME	YEARS	MONTH
		CLASS	HOURS
		CONDITION	

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS

SMCS

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STATION NAME
CLASS
CONDITION

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION _____ STATION NAME _____ YEARS _____ MONTH _____
 CLASS _____ HOURS _____
 CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS

SMOS

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SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION _____ STATION NAME _____ YEARS _____ MONTH _____
CLASS _____ HOURS _____
CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS _____

SMOS

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STATION NAME

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION _____ STATION NAME _____ YEARS _____ MONTH _____
 CLASS _____ HOURS _____
 CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS _____

SMOS

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NATIONAL WEATHER SERVICE
DEPARTMENT OF COMMERCE
ADMINISTRATIVE

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION _____ STATION NAME _____ YEARS _____ MONTH _____
CLASS _____ HOURS _____
CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS _____

SMOS

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NAVY WEATHER SERVICE
ATLANTIC OCEANIC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION _____ STATION NAME _____ YEARS _____ MONTH _____
 CLASS _____ HOURS _____
 CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS _____

SMOS

4

NAVAL WEATHER SERVICE
 REPORT FORM NO. 1
 APRIL 1964 EDITION

PERCENTAGE FREQUENCY OF WIND
 DIRECTION AND SPEED
 (FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION

STATION NAME

YEARS

MONTH

CLASS

HOURS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS

SMOS

4

NAVYAL OBSERVATORY
 TELETYPE
 ADDRESS

PERCENTAGE FREQUENCY OF WIND
 DIRECTION AND SPEED
 (FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION _____ STATION NAME _____ YEARS _____ MONTH _____
 CLASS _____ HOURS _____
 CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS

SMOS

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NAVAL WEATHER SERVICE
DEPARTMENT
ARMED FORCES

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION _____ STATION NAME _____ YEARS _____ MONTH _____
CLASS _____ HOURS _____
CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS _____

SMOS

4

NATIONAL WEATHER SERVICE
METEOROLOGICAL
ADMINISTRATION

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION _____ STATION NAME _____ YEARS _____
 _____ CLASS _____
 _____ CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS

SMOS

4

Temperature of Air, Sea, and Surface of Ground

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION _____ STATION NAME _____ DATE _____

CLASS _____

CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS

SMOS

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SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

YEARS

CLASS

HOURS

LOCATION

SPEED (KNTS) DIR	1-3	4-6	7-10	11-16	17-21	22-27	28-30	34-40	41-47	48-55	56-63	64-70	71-77	78-84	85-91	92-99	MEAN WIND SPEED
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WSW																	
W																	
WNW																	
NW																	
NNW																	
VARBL																	
CALM																	

TOTAL NUMBER OF OBSERVATIONS

SMO

4

TABLE 1. SURFACE WINDS
 (FROM HOURLY OBSERVATIONS)

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION _____ STATION NAME _____ CLAS _____
 _____ CONDITIO _____

SPEED (KNTS) DIR	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	56 - 63	64 - 71	72 - 79	80 - 87	88 - 95	96 - 103	MEAN WIND SPEED
N																	
NNE																	
NE																	
ENE																	
E																	
ESE																	
SE																	
SSE																	
S																	
SSW																	
SW																	
WSW																	
W																	
WNW																	
NW																	
NNW																	
VARBL																	
CALM																	

TOTAL NUMBER OF OBSERVATIONS

SMOS

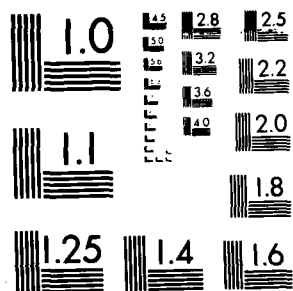
AD A150 382

SUMMARY OF METEOROLOGICAL OBSERVATIONS SURFACE (SMOS)
NORFOLK VIRGINIA(U) NAVAL OCEANOGRAPHY COMMAND
DETACHMENT ASHEVILLE NC NOV 83

UNCLASSIFIED

F/G 4/2

NI



MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS 1963-A

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION _____ STATION NAME _____ YEARS _____ MONTH _____
CLASS _____
CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS _____

SMOS



4

7275

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NCPERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION	STATION NAME	YEARS	MONTH
	CLASS		HOURS IN DAY
	CONDITION		

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

SMOS

4

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION NAME ASHEVILLE, NC CLASS AL - 1 YEARS 1961-1962 MONTH 1 HOURS 1-5

STATION 1 CONDITION 1

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0
NNE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NE	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0
ENE	1.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0
E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
W	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VARBL													
CALM													
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TOTAL NUMBER OF OBSERVATIONS 100

SMOS

4

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION NAME: ASHEVILLE YEARS: 1951-1952 MONTH: 12
CLASS: ALL HOURS 11.5 T
CONDITION:

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	1.0	1.0	1.0								4.0	7.0
NNE	1.0	1.0	1.0	1.0								4.0	7.1
NE	1.0	1.0	1.0	1.0								4.0	7.2
ENE	1.0	1.0	1.0	1.0								4.0	7.3
E	1.0	1.0	1.0	1.0								4.0	7.4
ESE	1.0	1.0	1.0	1.0								4.0	7.5
SE	1.0	1.0	1.0	1.0								4.0	7.6
SSE	1.0	1.0	1.0	1.0								4.0	7.7
S	1.0	1.0	1.0	1.0	1.0							4.0	7.8
SSW	1.0	1.0	1.0	1.0	1.0							4.0	7.9
SW	1.0	1.0	1.0	1.0	1.0							4.0	8.0
WSW	1.0	1.0	1.0	1.0	1.0							4.0	8.1
W	1.0	1.0	1.0	1.0	1.0							4.0	8.2
WNW	1.0	1.0	1.0	1.0	1.0							4.0	8.3
NW	1.0	1.0	1.0	1.0	1.0	1.0						4.0	8.4
NNW	1.0	1.0	1.0	1.0	1.0	1.0						4.0	8.5
VARBL													
CALM													
	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

TOTAL NUMBER OF OBSERVATIONS: 11

SMOS

4

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION NAME: ALL WEATHER CLASS: ALL WEATHER CONDITION: ALL WEATHER

STATION: ASHEVILLE, NC YEARS: 1961-1962 MONTH: ALL MONTHS HOURS: ALL HOURS

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N				1.6								2.5	1.6
NNE		1.6	1.6	1.6								3.2	1.6
NE			1.6	1.6								3.2	1.6
ENE	1.6	1.6	1.6	1.6								7.2	1.6
E	1.6	1.6	1.6									14.4	1.6
ESE	1.6	1.6	1.6									14.4	1.6
SE	1.6	1.6	1.6									14.4	1.6
SSE	1.6	1.6	1.6	1.6								14.4	1.6
S	1.6	1.6	1.6	1.6								14.4	1.6
SSW	1.6	1.6	1.6	1.6								14.4	1.6
SW	1.6	1.6	1.6									14.4	1.6
WSW	1.6	1.6	1.6									14.4	1.6
W	1.6	1.6	1.6									14.4	1.6
WNW	1.6	1.6	1.6									14.4	1.6
NW	1.6	1.6	1.6									14.4	1.6
NNW	1.6	1.6	1.6									14.4	1.6
VARBL													
CALM													
	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	14.4	1.6

TOTAL NUMBER OF OBSERVATIONS: 11

SMOS



4

7408-542

1275

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION	STATION NAME	YEARS	MO NORTH
	ALL-WEATHER		
	CLASS		HOURS 11 5 1
	CONDITION		

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	0	10	0	10	0	0	0	0	0	0	0	30	0
NNE	0	0	10	0	0	0	0	0	0	0	0	20	0
NE	0	10	10	0	0	0	0	0	0	0	0	20	0
ENE	10	10	10	0	0	0	0	0	0	0	0	30	0
E	0	10	10	0	0	0	0	0	0	0	0	20	0
ESE	10	20	10	0	0	0	0	0	0	0	0	20	0
SE	10	10	0	0	0	0	0	0	0	0	0	10	0
SSE	0	10	20	0	0	0	0	0	0	0	0	10	0
S	0	10	10	10	0	0	0	0	0	0	0	10	0
SSW	10	10	10	10	0	0	0	0	0	0	0	10	0
SW	0	10	0	0	0	0	0	0	0	0	0	20	0
WSW	0	10	10	0	0	0	0	0	0	0	0	20	0
W	0	0	0	0	0	0	0	0	0	0	0	10	0
WNW	0	0	10	0	0	0	0	0	0	0	0	10	0
NW	0	0	0	10	0	0	0	0	0	0	0	10	0
NNW	0	10	0	0	0	0	0	0	0	0	0	10	0
VARBL													
CALM													
	17.4	20.7	20.0	11.3	1.3							100.0	0

TOTAL NUMBER OF OBSERVATIONS

SMOS

4
2000-01-01

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION NAME: _____ YEARS: _____ MONTH: _____
CLASS: ALL WEATHER
CONDITION: _____
HOURS: 11 5 7

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	MEAN WIND SPEED
N												
NNE												
NE												
ENE												
E												
ESE												
SE												
SSE												
S												
SSW												
SW												
WSW												
W												
WNW												
NW												
NNW												
VARBL												
CALM												

TOTAL NUMBER OF OBSERVATIONS _____

SMOS



4

21468-5432

1225

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION ASHEVILLE, NC STATION NAME ASHEVILLE, NC YEARS 1972 MONTH JUL
CLASS ALL WEATHER HOURS 15 T
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		0	10	10.7								0	10.0
NNE		0	0	10.7	0							0	10.1
NE		0	10	0								0	0
ENE	0	10	10									0	10.0
E	10	10	10									0	40.0
ESE	10	0	0									0	40.1
SE	10	0	0									0	40.4
SSE	0	0	0									0	0
S	0	40.7	40	10.7								10	0.1
SSW	10	40.7	0	0.3								10	0.1
SW	10	0	40	10.7								10	0.0
WSW		0	0	0								0	0.0
W	0	10	0	0.7								0	0.0
WNW		0	0	0								10	0.7
NW	0	10	10	0								0	0.0
NNW		0	10	0.7	0.3							0	10.0
VARS													
CALM												10	
	10	0	20	12.7	0.7							10	0.0

TOTAL NUMBER OF OBSERVATIONS 710

SMOS

4

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION _____ STATION NAME _____ YEARS _____ MONTH _____
CLASS _____
CONDITION _____
HOURS OF OBSERVATION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	MEAN WIND SPEED
N												
NNE												
NE												
ENE												
E												
ESE												
SE												
SSE												
S												
SSW												
SW												
WSW												
W												
WNW												
NW												
NNW												
VARBL												
CALM												

TOTAL NUMBER OF OBSERVATIONS _____

SMOS

4

1275

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION _____ STATION NAME _____ YEARS _____ NORTH _____
CLASS _____
CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNE	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NE	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENE	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
E	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESE	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SE	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSE	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSW	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SW	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WSW	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
W	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WNW	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NW	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNW	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VARBL	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CALM	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TOTAL NUMBER OF OBSERVATIONS

SMOS

4

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION _____ STATION NAME _____ YEARS _____ MONTH _____
CLASS _____
CONDITION _____
HOURS - L S T _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS _____

SMOS



4

7500-102

7575

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION	STATION NAME	YEARS	MONTH
	CLASS		HOURS
	CONDITION		

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

SMOS

4

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION _____ STATION NAME _____ YEARS _____
 CLASS _____
 CONDITION _____
 MONTH _____
 HOURS _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		1.											
NNE			1.										
NE													
ENE	1.												
E													
ESE													
SE													
SSE													
S		1.	1.										
SSW													
SW													
WSW													
W				1.									
WNW													
NW													
NNW				1.									
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS _____

SMOS



4

NAVAL WEATHER SERVICE
DETACHMENT
ARSENAL, NCPERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION	STATION NAME	YEARS	MONTH
	CLASS		HOURLY
	CONDITION		

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	•		1.0	1.0								•	1.0
NNE	•	1.0	1.0	• 7								•	• 7
NE		1.0	1.0	1.0								•	• 7
ENE	•	•	1.0	1.0								•	•
E	•	•	•									1.0	•
ESE	•	•	•									•	•
SE	•	•		1.0								•	•
SSE	•	•	•	•								•	•
S	•	•		1.0								•	•
SSW	•	•	•	•								•	•
SW	•	1.0	•	1.0								•	•
WSW		•	1.0									•	•
W		•	1.0									•	•
WNW		•	1.0									•	•
NW		•	1.0	•								•	•
NNW			•	•								•	•
VARBL												•	•
CALM												•	•

TOTAL NUMBER OF OBSERVATIONS

SMOS

4

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION _____ STATION NAME _____ YEARS _____ MONTH _____
CLASS _____ HOURS _____
CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS

SMOS



4

FORM NO. 1

125

NAVAL WEATHER SERVICE
DEPARTMENT OF THE NAVY
WASHINGTON, D. C. 20375PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION	STATION NAME	YEARS	MONTH
		CLAS	1 1
		CONDITION	HOURS 1 1

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
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CALM													

TOTAL NUMBER OF OBSERVATIONS 24

5005

4

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION _____ STATION NAME _____ YEARS _____ MONTH _____
CLASS _____ HOURS U.S.T. _____
CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS _____

SMOS



4

FORM 5412

1225

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION	STATION NAME	YEARS	MONTH
	CLASS		HOURS
	CONDITION		

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	MEAN WIND SPEED
N												
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TOTAL NUMBER OF OBSERVATIONS

SMOS

4

NAVAL WEATHER SERVICE
OF TACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION _____ STATION NAME _____ YEARS _____ MONTH _____
CLASS _____
CONDITION _____
HOURS 11 57

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS _____

SMOS

4

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NCPERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION	STATION NAME	YEARS	MONTH
	CLASS		HOURLY SET
	CONDITION		

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS

SMOS

4

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION _____ STATION NAME _____ YEARS _____ MONTH _____
 CLASS _____
 CONDITION _____
 HOURS _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS _____

SMOS

4

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION _____ STATION NAME _____ YEARS _____ MONTH _____
CLASS _____
CONDITION _____
HOURS _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
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CALM													

TOTAL NUMBER OF OBSERVATIONS _____

SMOS

4

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION _____ STATION NAME _____ YEARS _____ MONTH _____
 CLASS _____ HOURS _____
 CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS _____

SMOS

4

NAVY WEATHER SERVICE
STATION

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION _____ STATION NAME _____ YEARS _____ MONTH _____
 CLASS _____ HOURS _____
 CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS _____

SMOS

4

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION _____ STATION NAME _____ YEARS _____ MONTH _____
CLASS _____ HOURS _____
CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS _____

SMOS

4

NAME OF STATION
 LOCATION
 DATE

PERCENTAGE FREQUENCY OF WIND
 DIRECTION AND SPEED
 (FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION

STATION NAME

YEARS

MONTH

CLASS

HOURS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS

SMOS

4

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION _____ STATION NAME _____ YEARS _____ MONTH _____
CLASS _____
CONDITION _____
HOURLY OBSERVATIONS _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS _____

SMOS



4

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NCPERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION	STATION NAME	YEARS	MONTH
		CLASS	HOURS - LST
		CONDITION	

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
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VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

SMOS

4

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION _____ STATION NAME _____ YEARS _____ MONTH _____
CLASS _____ HOURS _____
CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS _____

SMOS

4

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION _____ STATION NAME _____ YEARS _____ MONTH _____
CLASS _____ HOURE _____
CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
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CALM													

TOTAL NUMBER OF OBSERVATIONS _____

SMOS

4

2000年12月10日
 2000年12月10日
 2000年12月10日

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION

STATION NAME

YEAR

2004

CLASS

HOURS - 11

CONCLUSION

[illegible]

TOTAL NUMBER OF OBSERVATIONS

SMOS

4

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION _____ STATION NAME _____ YEARS _____ MONTH _____
CLASS _____ HOURS 1 2 3 4 5 6 7 8 9 10 11 12
CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS _____

SMOS

4

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION _____ STATION NAME _____ YEARS _____ MONTH _____
CLASS _____ HOURS _____
CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
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S	•	•	•	•	•							•	•
SSW	•	•	•	•	•							•	•
SW	•	•	•	•	•							•	•
WSW	•	•	•	•	•							•	•
W		•	•	•	•							•	•
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VARBL												•	•
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TOTAL NUMBER OF OBSERVATIONS _____

SMOS

4

NAVAL WEATHER SERVICE
OF FAIRMONT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION _____ STATION NAME _____ YEARS _____
 CLASS _____
 CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
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CALM													

TOTAL NUMBER OF OBSERVATIONS _____

SMOS

4

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION _____ STATION NAME _____ YEARS _____ MONTH _____
 CLASS _____ HOURS _____
 CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
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CALM													

TOTAL NUMBER OF OBSERVATIONS _____

SMOS

4

NAVY WEATHER SERVICE
DETACHMENT
AT HONOLULU

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION _____ STATION NAME _____ YEARS _____ MONTH _____
 CLASS _____ HOUR _____
 CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
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TOTAL NUMBER OF OBSERVATIONS _____

SMOS

4

NAVY WEATHER BUREAU
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION _____ STATION NAME _____ YEARS _____ MONTH _____
CLASS _____ HOURS _____
CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
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VARBL
CALM

TOTAL NUMBER OF OBSERVATIONS _____

SMOS

4

NAVY WEATHER SERVICE
STATION REPORT
WIND RECORD

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION _____ STATION NAME _____ YEARS _____
CLASS _____ HOURS _____
CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
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CALM													

TOTAL NUMBER OF OBSERVATIONS

SMOS

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION NAME
STATION NUMBER
CLASS

STATION

STATION NAME

YEAR

MONTH

CLASS

HOURS

CONDITION

SPEED (KNTS) DIR	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
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VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

SMOS



4

NAVAL OBSERVATION STATION
U.S. NAVY
AT THE OBSERVATION STATION

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION

STATION NAME

YEAR

MONTH

CLASS

HOURS

CONDITION

SPEED (KNTS) D.R.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
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CALM													

TOTAL NUMBER OF OBSERVATIONS

SMOS

4

NAVAL WEATHER SERVICE
NAVY DEPARTMENT
WASHINGTON, D.C.

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION _____ STATION NAME _____ YEARS _____ MONTH _____
CLASS _____ HOURS _____
CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
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CALM													

TOTAL NUMBER OF OBSERVATIONS

SMOS

^a The number of subjects who were included in each group was 10.

SURFACE WINDS

5547104

STATION NAME

TEARS

404

C: A59

50488

CONDITION

[illegible]

TOTAL NUMBER OF OBSERVATIONS

SMOS

4

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION	STATION NAME	YEARS	MONTH
	CLASS		HOURLS
	CONDITION		

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS

SMOS

4

TABLE 11-1
PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION _____ STATION NAME _____ YEARS _____ MONTH _____
 CLASS _____ HOURS _____
 CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS _____

SMOS

4

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION _____ STATION NAME _____ YEARS _____ MONTH _____
CLASS _____
CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
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CALM													

TOTAL NUMBER OF OBSERVATIONS _____

SMOS

4

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION _____ STATION NAME _____ YEARS _____ MONTH _____
CLASS _____
CONDITION _____
HOURS 11 5 T

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS _____

SMOS

4

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION _____ STATION NAME _____ YEARS _____ MONTH _____
CLASS _____ HOURS 11 5 T
CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	•	•	•	•	•	•	•	•	•	•	•	•	•
NNE	•	•	•	•	•	•	•	•	•	•	•	•	•
NE	•	•	•	•	•	•	•	•	•	•	•	•	•
ENE	•	•	•	•	•	•	•	•	•	•	•	•	•
E	•	•	•	•	•	•	•	•	•	•	•	•	•
ESE	•	•	•	•	•	•	•	•	•	•	•	•	•
SE	•	•	•	•	•	•	•	•	•	•	•	•	•
SSE	•	•	•	•	•	•	•	•	•	•	•	•	•
S	•	•	•	•	•	•	•	•	•	•	•	•	•
SSW	•	•	•	•	•	•	•	•	•	•	•	•	•
SW	•	•	•	•	•	•	•	•	•	•	•	•	•
WSW	•	•	•	•	•	•	•	•	•	•	•	•	•
W	•	•	•	•	•	•	•	•	•	•	•	•	•
WNW	•	•	•	•	•	•	•	•	•	•	•	•	•
NW	•	•	•	•	•	•	•	•	•	•	•	•	•
NNW	•	•	•	•	•	•	•	•	•	•	•	•	•
VARBL	•	•	•	•	•	•	•	•	•	•	•	•	•
CALM	•	•	•	•	•	•	•	•	•	•	•	•	•

TOTAL NUMBER OF OBSERVATIONS _____

SMOS

4

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION _____ STATION NAME _____ YEARS _____ MONTH _____
CLASS _____
CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
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WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS _____

SMOS

4

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION _____ STATION NAME _____ YEARS _____ MONTH _____
CLASS _____ HOURS _____
CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
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WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS _____

SMOS

4

NAVY WEATHER SERVICE
RECEIVED
AT 11:00 PM

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION _____ STATION NAME _____ YEARS _____ MONTH _____
CLASS _____ HOURS _____
CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS _____

SMOS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION _____ STATION NAME _____ YEARS _____
CLASS _____ HOURS _____
CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
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WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

SMOS

4

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

YEARS

CLASS

HOURLS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

SMOS

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

YEARS

CLASS

MOON

COORDINATE

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

SMOS

4

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS.)

STATION _____ STATION NAME _____ YEARS _____
 CLASS _____
 LOCATION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

SMDS

4

NAVAL WEATHER SERVICE
 WIND RECORD

PERCENTAGE FREQUENCY OF WIND
 DIRECTION AND SPEED
 (FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION _____ STATION NAME _____ YEAR _____ MONTH _____
 CLASS _____ HOURS _____
 CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

SMOS

4

NAVY WEATHER SERVICE
DEPARTMENT
WASHINGTON

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION _____ STATION NAME _____ YEARS _____ MONTH _____
CLASS _____
CONDITION _____
HOURS LST _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	MEAN WIND SPEED
N												
NNE												
NE												
ENE												
E												
ESE												
SE												
SSE												
S												
SSW												
SW												
WSW												
W												
WNW												
NW												
NNW												
VARBL												
CALM												

TOTAL NUMBER OF OBSERVATIONS

SMOS

4

NATIONAL WEATHER SERVICE
DEPARTMENT OF COMMERCE
ASHVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION _____ STATION NAME _____ YEARS _____ MONTH _____
 CLASS _____ HOURS _____
 CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	MEAN WIND SPEED
N												
NNE												
NE												
ENE												
E												
ESE												
SE												
SSE												
S												
SSW												
SW												
WSW												
W												
WNW												
NW												
NNW												
VARBL												
CALM												

TOTAL NUMBER OF OBSERVATIONS _____

SMOS



4

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NCPERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION	STATION NAME	YEARS	MONTH
	CLASS		HOURS U.S.T.
	CONDITION		

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

SMOS

4

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION _____ STATION NAME _____ YEARS _____ MONTH _____
CLASS _____ HOURS _____
CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	MEAN WIND SPEED
N												
NNE												
NE												
ENE												
E												
ESE												
SE												
SSE												
S												
SSW												
SW												
WSW												
W												
WNW												
NW												
NNW												
VARBL												
CALM												

TOTAL NUMBER OF OBSERVATIONS _____

SMOS

4

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION _____ STATION NAME _____ YEARS _____ MONTH _____
CLASS _____
CONDITION _____
HOURS _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS _____

SMOS

4

NAVAL WEATHER SERVICE
JAGC HONOLULU
AT HONOLULU, HI

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION _____ STATION NAME _____ YEARS _____ MONTH _____
CLASS _____
CONDITION _____
HOURS OF OBS. _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.	.
NNE	1	.	.	.	.	.	.	.	.
NE
ENE
E
ESE
SE
SSE
S	.	.	.	1	.	.	.	.	.	.	.	.	.
SSW	.	.	.	1	.	.	.	.	.	.	.	.	.
SW
WSW
W
WNW	.	.	.	1	.	.	.	.	.	.	.	.	.
NW	.	.	1	.	.	.	.	.	.	.	.	.	.
NNW
VARBL
CALM
	1	.

TOTAL NUMBER OF OBSERVATIONS _____

SMOS

SURFACE WINDS

[illegible]

SMOS

4

NAVY WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION _____ STATION NAME _____ YEARS _____ MONTH _____
CLASS _____ HOURS LST _____
CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N
NNE
NE
ENE
E
ESE
SE
SSE
S
SSW
SW
WSW
W
WNW
NW
NNW
VARBL
CALM

TOTAL NUMBER OF OBSERVATIONS

SMOS

4

NAVAL WEATHER SERVICE
 REPORT FORM NO. 1
 APR 1961 EDITION

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION _____ STATION NAME _____ YEARS _____ MONTH _____
 CLASS _____ HOURS _____
 CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS _____

SMOS

4

NALAL, HAWAII
 1951-1952
 WIND RECORD

PERCENTAGE FREQUENCY OF WIND
 DIRECTION AND SPEED
 (FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION _____ STATION NAME _____ YEARS _____ MONTH _____
 CLASS _____ HOURS 1-57 _____
 CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

SMOS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION	STATION NAME	YEARS	DEPTH
	A	B	C
	CLASS	D	HOURS
	COORDIN	E	F

[illegible]

TOTAL NUMBER OF OBSERVATIONS

SMOS

4

STATION NAME

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION _____ STATION NAME _____ YEARS _____ MONTH _____

CLASS _____ HOURS _____

CORRECTION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

SMOS

4

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

DATE

TIME

CLASS

MO. NO.

COMMENTS

SPEED (KNTS)	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	WAVE HGT (FT)
DIR												
N												
NNE												
NE												
ENE												
E												
ESE												
SE												
SSE												
S												
SSW												
SW												
WSW												
W												
WNW												
NW												
NNW												
VARBL												
CALM												

TOTAL NUMBER OF OBSERVATIONS

SMOS

4

STATION NAME
CLASS
CONDITION

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION

STATION NAME

YEARS

MONTH

CLASS

HOURS

CONDITION

SPEED (KNTS) DIR	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

SMOS



4

NAVY WEATHER SERVICE
OFFICE OF THE CHIEF OF NAVAL WEATHER SERVICE
WASHINGTON, D.C.PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION _____ STATION NAME _____ YEARS _____ MONTH _____
CLASS _____ HOURS _____
CONDITION _____

SPEED (KNTS) DIR	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS _____

SMOS

4

NAVAL WEATHER SERVICE
 1310 14th Street
 AGH-1, LEE, VA.

PERCENTAGE FREQUENCY OF WIND
 DIRECTION AND SPEED
 (FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION _____ STATION NAME _____ YEARS _____ MONTH _____
 CLASS _____ HOURS _____
 CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

SMOS

4

NAVAL WEATHER SERVICE
DETACHMENT
ASHTABUL, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION _____ STATION NAME _____ YEARS _____ MONTH _____
 CLASS _____
 CONDITION _____
 HOURS _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS _____

SMOS

Local Federal Building
Asheville, N. C.

PART D

CEILING VERSUS VISIBILITY

This chart is a bivariate percentage frequency distribution of ceiling versus visibility, with ceiling greater than 20,000 feet and as a separate class "no ceiling", versus visibility greater than zero to equal to or greater than 10 miles. Data are derived from hourly observations, and frequency tables are presented as follows:

1. Annual - all years and all hours combined
2. All Month - all years and all hours combined
3. All Month - by standard 3-hour groups

Due to the cumulative nature of this presentation, it is possible to enter the percentage frequency for any given limit of ceiling or visibility separately, or for any combination of ceiling and visibility. The totals progress to the right and downward. Ceiling is determined independently, referring to totals in the extreme right hand column. All visibility is determined independently, referring to the horizontal row of totals at the bottom of the page. For example, the number of times the station was ceiling 10,000 feet or more and visibility 5 miles or more is the total at the intersection of the appropriate ceiling column and visibility row. See the tables at the end of this report for details.

Beginning in mid 1948, the station was equipped with a ceilometer, and the data for the "no ceiling" class were discontinued. For the period 1948 to 1950, the data for the "no ceiling" class were discontinued. For the period 1948 to 1950, the data for the "no ceiling" class were discontinued.

EXAMPLES FOR USE OF CEILING VERSUS VISIBILITY TABLES IN THIS TABULATION

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	$\geq 2\frac{1}{2}$	≥ 2	$\geq 1\frac{1}{2}$	$\geq 1\frac{1}{4}$	≥ 1	$\geq \frac{3}{4}$	$\geq \frac{1}{2}$	$\geq \frac{1}{4}$	$\geq \frac{1}{8}$	$\geq \frac{1}{16}$	≥ 0
NO CEILING																
1800																
1500					91.0											92.6
1200																
1000																
800																
600																
500										97.4						98.1
400																
300																
200																
100																
0					95.4		96.9			98.3						100.0

EXAMPLE # 1 Read ceiling values independently of visibility under column at right headed ≥ 0 .
For instance, from the table: Ceiling ≥ 1500 feet = 92.6%.
Ceiling ≥ 500 feet = 98.1%.

EXAMPLE # 2 Read visibilities independently of ceilings on bottom line opposite ≥ 0 . From the table:
Visibility ≥ 3 miles = 95.4%.
Visibility ≥ 2 miles = 96.9%.
Visibility ≥ 1 mile = 98.3%.

EXAMPLE # 3 To obtain combinations of ceiling with visibility, read figure at intersection of the two categories; i.e.: Ceiling ≥ 1500 feet with visibility ≥ 3 miles = 91.0%.

PART D

ADDITIONAL EXAMPLES

EXAMPLE # 4

Values below minimums stated in the table may be obtained by subtracting the value given in the table from 100%.

Thus, to obtain the percentage of observations with ceiling < 1500 feet and/or visibility < 3 miles, subtract the value read from the table at the intersection, which is 91.0, from 100.0. The answer 9.0 is the percentage of observations with ceiling < 1500 feet and/or visibility < 3 miles.

Likewise, the percentage of observations with ceiling < 500 feet and/or visibility < 1 mile is 2.6, obtained by subtracting 97.4 from 100.0.

EXAMPLE # 5

To find the percentage of observations falling within the two categories given in example above, subtract the value read from the table for the first set of limits from the value in the table for the second set of limits. The difference will be the percentage of observations meeting the lower set of limits, but not meeting the higher set of limits.

The value 91.0 read from the table at the intersection of ≥ 1500 feet with ≥ 3 miles, subtracted from 97.4 read from the table at the intersection of ≥ 500 feet with ≥ 1 mile is equal to 6.4%. Thus; 6.4 percent of the observations meet the criteria: "ceiling ≥ 500 feet with visibility ≥ 1 mile, but < 3 miles; or ceiling ≥ 500 feet, but < 1500 feet with visibility ≥ 1 mile."

Since these tabulations are prepared in several ways including by month, by 3-hour groups it is possible to determine diurnal variations of ceiling and visibility limits as well as probabilities of various ceiling-visibility combinations.

SKY COVER

1. α is a normal distribution with mean μ and variance σ^2 .

$$f_{\text{eff}} = f_{\text{eff}}(\text{eff}) = f_{\text{eff}}(1 - \text{eff}) = f_{\text{eff}}(1 - \text{eff}) = f_{\text{eff}}(1 - \text{eff})$$

10000 In some cases station closures were not reported or were reported with a delay. For example, the following stations, were planned for Air Force Station Cancellation in 1961, but were not officially closed until 1962 or 1963. Weather service stations reported that they were not to be closed until 1963, but new stations have been authorized in 1968, and in many cases, it could be difficult to determine the closure date.

data: all variables (1) were calculated for each group, for all 100 simulations. In this case, the data were converted to both prior + sampling, and to prior + π + sampling. The results for the prior + π + sampling data were identical to those in other simulations, and hence are not shown.

0.1 : 0.3: beginning in 1994 the model at clear, scattered, few, overcast, and very overcast sky input for the total sky cover, reflecting the the climatology.

```
clear converted to 0.0
Scattered converted to 4.0
broken converted to 0.0
other not converted to 4.0
observed converted to 4.0
```


CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY, STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .4	≥ .3	≥ .25	≥ .2	≥ .15	≥ 0
NO CEILING																
≥ 20000																
IV 18000																
IV 16000																
IV 14000																
IV 12000																
IV 10000																
IV 9000																
IV 8000																
IV 7000																
IV 6000																
IV 5000																
IV 4500																
IV 4000																
IV 3500																
IV 3000																
IV 2500																
IV 2000																
IV 1800																
IV 1500																
IV 1200																
IV 1000																
IV 900																
IV 800																
IV 700																
IV 600																
IV 500																
IV 400																
IV 300																
IV 200																
IV 100																
IV 0																

TOTAL NUMBER OF OBSERVATIONS

DIR NAVIGATION

NAVAL WEATHER SERVICE WASHINGTON, D. C.

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS

CEILING FEET	VISIBILITY, STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 5/16	≥ 1/4	≥ 0
NO CEILING																
≥ 20000																
IV 18000																
IV 16000																
≥ 14000																
IV 12000																
IV 10000																
IV 9000																
IV 8000																
IV 7000																
IV 6000																
IV 5000																
IV 4500																
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IV 3500																
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IV 700																
IV 600																
IV 500																
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IV 300																
IV 200																
IV 100																
IV 0																

TOTAL NUMBER OF OBSERVATIONS

NAVAL WEATHER SERVICE

NAVAL WEATHER SERVICE FORM NO. 107-1 (1-57)

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

NO. OF DAYS

CEILING FEET	VISIBILITY, STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .4	≥ .3	≥ .25	≥ .2	≥ .15	≥ .1
NO CEILING																
≥ 20000																
IN 18000																
IN 16000																
IN 14000																
IN 12000																
IN 10000																
IN 9000																
IN 8000																
IN 7000																
IN 6000																
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IN 1200																
IN 1000																
IN 900																
IN 800																
IN 700																
IN 600																
IN 500																
IN 400																
IN 300																
IN 200																
IN 100																
IN 0																

TOTAL NUMBER OF OBSERVATIONS

DATE OF REPORT

BY

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

DATE

CEILING FEET	VISIBILITY, STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .4	≥ .3	≥ .25	≥ .2	≥ .15	≥ .1
NO CEILING																
≥ 20000																
18000																
16000																
14000																
12000																
10000																
9000																
8000																
7000																
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600																
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400																
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200																
100																
0																

TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY STATUTE MILES													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1.4	≥ 1	≥ .5	≥ .4	≥ .3	≥ .2
NO CEILING														
≥ 20000														
IN 18000														
IN 16000														
IN 14000														
IN 12000														
IN 10000														
IN 9000														
IN 8000														
IN 7000														
IN 6000														
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IN 900														
IN 800														
IN 700														
IN 600														
IN 500														
IN 400														
IN 300														
IN 200														
IN 100														
IN 0														

TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY, STATUTE MILES													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .25	≥ .15	≥ .1	≥ .05
NO. CEILING														
≥ 20000														
≥ 18000														
≥ 16000														
≥ 14000														
≥ 12000														
≥ 10000														
≥ 9000														
≥ 8000														
≥ 7000														
≥ 6000														
≥ 5000														
≥ 4500														
≥ 4000														
≥ 3500														
≥ 3000														
≥ 2500														
≥ 2000														
≥ 1500														
≥ 1000														
≥ 800														
≥ 600														
≥ 400														
≥ 200														
≥ 100														
≥ 0														

TOTAL NO. OBS. IN PERIOD

CEILING VERSUS

STATION

STATION NAME

YEARS

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY, STATUTE MILES										
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ 0
NO CEILING											
≥ 2000											
≥ 1800											
≥ 1600											
≥ 1400											
≥ 1200											
≥ 1000											
≥ 900											
≥ 800											
≥ 700											
≥ 600											
≥ 500											
≥ 450											
≥ 400											
≥ 350											
≥ 300											
≥ 250											
≥ 200											
≥ 150											
≥ 100											
≥ 50											
≥ 0											

TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY - STATUTE MILES														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	0
NO CEILING															
≥ 20000															
≥ 18000															
≥ 16000															
≥ 14000															
≥ 12000															
≥ 10000															
≥ 9000															
≥ 8000															
≥ 7000															
≥ 6000															
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≥ 4500															
≥ 4000															
≥ 3500															
≥ 3000															
≥ 2500															
≥ 2000															
≥ 1800															
≥ 1500															
≥ 1200															
≥ 1000															
≥ 900															
≥ 800															
≥ 700															
≥ 600															
≥ 500															
≥ 400															
≥ 300															
≥ 200															
≥ 100															
≥ 0															

TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

WINDSPEED

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ 1/8	≥ 0
NO CEILING																
≥ 20000																
18000																
16000																
14000																
12000																
10000																
9000																
8000																
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100																
0																

TOTAL NUMBER OF OBSERVATIONS

WINDSPEED

NO. 10 WEATHER DATA SHEET (REV. 1-1-57)

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 0	≥ 0
NO CEILING																
≥ 20000																
IV 18000																
IV 16000																
IV 14000																
IV 12000																
IV 10000																
IV 9000																
IV 8000																
IV 7000																
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IV 600																
IV 500																
IV 400																
IV 300																
IV 200																
IV 100																
IV 0																

TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

DATE

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 0	≥ 0
NO CEILING																
≥ 20000																
18000																
16000																
14000																
12000																
10000																
9000																
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TOTAL NUMBER OF OBSERVATIONS

HOW MANY TIMES

NAVAL WEATHER SERVICE DETACHMENT

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS

CEILING FEET	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .4	≥ .3	≥ .25	≥ .2	≥ .1
NO CEILING															
≥ 20000															
IV 18000															
IV 16000															
IV 14000															
IV 12000															
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IV 700															
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IV 500															
IV 400															
IV 300															
IV 200															
IV 100															
IV 0															

TOTAL NUMBER OF OBSERVATIONS

NAVAL WEATHER SERVICE

NATIONAL WEATHER SERVICE METEOROLOGICAL STATION

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

WZRS 157

CEILING FEET	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ 0
NO CEILING														
IV 20000														
IV 18000														
IV 16000														
IV 14000														
IV 12000														
IV 10000														
IV 9000														
IV 8000														
IV 7000														
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IV 1500														
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IV 900														
IV 800														
IV 700														
IV 600														
IV 500														
IV 450														
IV 400														
IV 300														
IV 200														
IV 100														
IV 0														

TOTAL NUMBER OF OBSERVATIONS

UNPAID CLASSIFIED

NAVAL WEATHER SERVICE FORM NO. 1-57

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

NO. 1-57

CEILING FEET	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 1/2	≥ 5/16	≥ 1/8
NO CEILING														
≥ 20000														
IV 18000														
IV 16000														
IV 14000														
IV 12000														
IV 10000														
IV 9000														
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IV 7000														
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IV 900														
IV 800														
IV 700														
IV 600														
IV 500														
IV 400														
IV 300														
IV 200														
IV 100														
IV 0														

TOTAL NUMBER OF OBSERVATIONS

ORIGINAL REPORTED

CEILING VERSUS VISIBILITY

NAME, ADDRESS, CITY, STATE, ZIP CODE

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

NO. OF

CEILING FEET	VISIBILITY STATUTE MILES														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ½	≥ ¼	≥ 1/8	≥ 5/16	≥ 1/4	≥ 0
NO CEILING															
≥ 20000															
IV 18000															
IV 16000															
IV 14000															
IV 12000															
IV 10000															
IV 9000															
IV 8000															
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IV 1800															
IV 1500															
IV 1200															
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IV 900															
IV 800															
IV 700															
IV 600															
IV 500															
IV 400															
IV 300															
IV 200															
IV 100															
IV 0															

TOTAL NUMBER OF OBSERVATIONS

DATE, TIME, AND PLACE

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY, STATUTE MILES														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1.4	≥ 1	≥ .5	≥ .4	≥ .3	≥ .25	≥ .2
NO CEILING															
≥ 20000															
18000															
16000															
14000															
12000															
10000															
9000															
8000															
7000															
6000															
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900															
800															
700															
600															
500															
400															
300															
200															
100															
0															

TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY, STATUTE MILES													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	0
NO CEILING														
≥ 20000														
18000														
16000														
14000														
12000														
10000														
9000														
8000														
7000														
6000														
5000														
4500														
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1800														
1500														
1200														
1000														
900														
800														
700														
600														
500														
400														
300														
200														
100														
0														

TOTAL NUMBER OF OBSERVATIONS

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

[illegible]

Y. A. M. 1984 (1985) 10, 11

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY, STATUTE MILES												
	> 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .4	≥ .3	≥ .2
NO CEILING													
≥ 20000													
≥ 18000													
≥ 16000													
≥ 14000													
≥ 12000													
≥ 10000													
≥ 9000													
≥ 8000													
≥ 7000													
≥ 6000													
≥ 5000													
≥ 4500													
≥ 4000													
≥ 3500													
≥ 3000													
≥ 2500													
≥ 2000													
≥ 1500													
≥ 1000													
≥ 900													
≥ 800													
≥ 700													
≥ 600													
≥ 500													
≥ 400													
≥ 300													
≥ 200													
≥ 100													
≥ 0													

TOTAL NUMBER OF HOURS

A11 A150 382

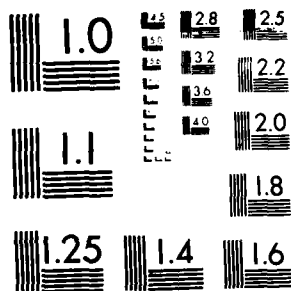
SUMMARY OF METEOROLOGICAL OBSERVATIONS SURFACE (SMOS)
NORFOLK VIRGINIA(U) NAVAL OCEANOGRAPHY COMMAND
DETACHMENT ASHEVILLE NC NOV 83

314

UNCLASSIFIED

F/G 4/2

NL



MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURLY

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ 1/8	≥ 0
NO CEILING																
≥ 20000																
IV 18000																
IV 16000																
IV 14000																
IV 12000																
IV 10000																
IV 9000																
IV 8000																
IV 7000																
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IV 600																
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IV 200																
IV 100																
IV 0																

TOTAL NUMBER OF OBSERVATIONS

NOVA JOCEANMET 5405

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURLY LST

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ 1/8	≥ 0
NO CEILING																
≥ 20000																
IV 18000																
IV 16000																
IV 14000																
IV 12000																
IV 10000																
IV 9000																
IV 8000																
IV 7000																
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IV 900																
IV 800																
IV 700																
IV 600																
IV 500																
IV 400																
IV 300																
IV 200																
IV 100																
IV 0																

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

4

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

HOURS

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	$\geq 2\frac{1}{2}$	≥ 2	$\geq 1\frac{1}{2}$	$\geq 1\frac{1}{4}$	≥ 1	$\geq \frac{3}{4}$	$\geq \frac{1}{2}$	$\geq \frac{1}{4}$	$\geq \frac{1}{8}$	≥ 0	
NO CEILING																
IV 20000																
IV 18000																
IV 16000																
IV 14000																
IV 12000																
IV 10000																
IV 9000																
IV 8000																
IV 7000																
IV 6000																
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TOTAL NUMBER OF OBSERVATIONS

DIPNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

HOURS

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	$\geq 2\frac{1}{2}$	≥ 2	$\geq 1\frac{1}{2}$	$\geq 1\frac{1}{4}$	≥ 1	$\geq \frac{3}{4}$	$\geq \frac{1}{2}$	$\geq \frac{1}{4}$	$\geq \frac{1}{8}$	$\geq \frac{1}{16}$	≥ 0
NO CEILING																
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TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

HOURS

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	$\geq 2\frac{1}{2}$	≥ 2	$\geq 1\frac{1}{2}$	$\geq 1\frac{1}{4}$	≥ 1	$\geq \frac{3}{4}$	$\geq \frac{1}{2}$	$\geq \frac{1}{4}$	$\geq \frac{1}{8}$	$\geq \frac{1}{16}$	≥ 0
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TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

HOURS OF DAY

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ 1/8	≥ 0
NO CEILING																
≥ 20000																
IV 18000																
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TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

HOURS LL ST

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	$\geq 2\frac{1}{2}$	≥ 2	$\geq 1\frac{1}{2}$	$\geq 1\frac{1}{4}$	≥ 1	$\geq \frac{3}{4}$	$\geq \frac{1}{2}$	$\geq \frac{1}{4}$	$\geq \frac{5}{16}$	$\geq \frac{1}{8}$	≥ 0
NO CEILING																
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TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

HOURS

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	$\geq 2\frac{1}{2}$	≥ 2	$\geq 1\frac{1}{2}$	$\geq 1\frac{1}{4}$	≥ 1	$\geq \frac{3}{4}$	$\geq \frac{1}{2}$	$\geq \frac{1}{4}$	$\geq \frac{1}{8}$	≥ 0	
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TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, AHNHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION NAME

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

HOURS OF DAY

CEILING (FEET)	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	$\geq 2\frac{1}{2}$	≥ 2	$\geq 1\frac{1}{2}$	$\geq 1\frac{1}{4}$	≥ 1	$\geq \frac{3}{4}$	$\geq \frac{1}{2}$	$\geq \frac{1}{4}$	≥ 0	
NO CEILING															
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TOTAL NUMBER OF OBSERVATIONS

DIRNA VOCE AND SET 5005

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ 1/8	≥ 0
NO CEILING																
≥ 20000																
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TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT ARLV 111111

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

NORTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING																
≥ 20000																
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TOTAL NUMBER OF OBSERVATIONS

1. OR NAVY AND MET. ST. US

NAVAL WEATHER SERVICE DETACHMENT, ABLETON, N.

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

NO. OF

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/16	≥ 1/32	≥ 0
NO CEILING																
≥ 20000																
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TOTAL NUMBER OF OBSERVATIONS

UNCLASSIFIED

NATIONAL WEATHER SERVICE DETACHMENT AT WHEELING

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS

CEILING FEET	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 0	
NO CEILING															
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TOTAL NUMBER OF OBSERVATIONS

DATE WHEN OBSERVED

NATIONAL WEATHER SERVICE DETACHMENT WAREVILLE, NC

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ 1/8	≥ 0
NO CEILING																
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TOTAL NUMBER OF OBSERVATIONS

CHINA LAKE MET STDS

NAVAL WEATHER SERVICE DETACHMENT, AHNH, TEXAS

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURLY U.S.T.

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	$\geq 2\frac{1}{2}$	≥ 2	$\geq 1\frac{1}{2}$	$\geq 1\frac{1}{4}$	≥ 1	$\geq \frac{3}{4}$	$\geq \frac{1}{2}$	$\geq \frac{1}{4}$	$\geq \frac{1}{8}$	≥ 0	
NO CEILING																
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TOTAL NUMBER OF OBSERVATIONS

DIRNAVCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT AFB, CALIF.

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

HOURLY

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/16	≥ 0	≥ 0
NO CEILING																
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TOTAL NUMBER OF OBSERVATIONS

NAVY WEATHER SERVICE

4

NAVAL WEATHER SERVICE DETACHMENT, APO FUEB, NC

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

NORTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS LST

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5-16	≥ 1	≥ 0
NO CEILING																
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TOTAL NUMBER OF OBSERVATIONS

OPNAVOC LANMET SMOS

CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ANNEVILLE, NC

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

HOURLY

CEILING (FEET)	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 0	
NO CEILING															
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TOTAL NUMBER OF OBSERVATIONS

ORNAVOCEANMET SMOS

4

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

HOURS L & T

CEILING FEET	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	$\geq 2\frac{1}{2}$	≥ 2	$\geq 1\frac{1}{2}$	$\geq 1\frac{1}{4}$	≥ 1	$\geq \frac{3}{4}$	$\geq \frac{1}{2}$	$\geq \frac{1}{4}$	≥ 0	
NO CEILING															
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TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT WASHINGTON

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 0	≥ 0
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TOTAL NUMBER OF OBSERVATIONS

DIRECTOR, NAVAL WEATHER SERVICE

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

HOURS

CEILING (FEET)	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 0	≥ 0
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TOTAL NUMBER OF OBSERVATIONS

DIPNAVJCEA/IMFT 5/8/05

FAA FORM 619 (Rev. 1-60)

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURLY

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 0	≥ 0
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TOTAL NUMBER OF OBSERVATIONS

FORM 619-1 (Rev. 1-60)

NAVAL WEATHER SERVICE DETACHMENT ARLVCEILING

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

NO. OF HOURS

CEILING (FEET)	VISIBILITY (STATUTE MILES)																
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 5/16	≥ 1/4	≥ 0
NO CEILING																	
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IV 200																	
IV 100																	
IV 0																	

TOTAL NUMBER OF OBSERVATIONS

U.S. NAVY WEATHER SERVICE

NAVAL WEATHER SERVICE STATION FORM NO. 1-67

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ½	≥ ¼	≥ 1/8	≥ 1/16	≥ 1/32	≥ 1/64	≥ 0
NO CEILING																
≥ 20000																
IV 18000																
IV 16000																
IV 14000																
IV 12000																
IV 10000																
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IV 8000																
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IV 700																
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IV 500																
IV 400																
IV 300																
IV 200																
IV 100																
IV 0																

TOTAL NUMBER OF OBSERVATIONS

UNCLASSIFIED

U.S. AIR FORCE WEATHER SERVICE, TARRANT FIELD, TEXAS

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

HOURS

CEILING FEET	VISIBILITY, STAT. TE. MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 5/16	≥ 1/4	≥ 0
NO CEILING																
≥ 20000																
IV 18000																
IV 16000																
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IV 700																
IV 600																
IV 500																
IV 400																
IV 300																
IV 200																
IV 100																
IV 0																

TOTAL NUMBER OF OBSERVATIONS

APPROXIMATE

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

DATE

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 5/16	≥ 1/4	≥ 0
NO CEILING																
≥ 20000																
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IV 100																
IV 0																

TOTAL NUMBER OF OBSERVATIONS

NATIONAL WEATHER SERVICE DETACHMENT REPORT

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

HOURS

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ 1/8	≥ 0
NO CEILING																
≥ 20000																
IV 18000																
IV 16000																
IV 14000																
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IV 0																

TOTAL NUMBER OF OBSERVATIONS

PREPARED BY

NATIONAL WEATHER SERVICE, FAIRMONT, MARYLAND

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS - DAY

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ½	≥ ¼	≥ ⅛	≥ 1/16	≥ 1/32	≥ 1/64	≥ 0
NO CEILING																
≥ 20000																
18000																
16000																
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TOTAL NUMBER OF OBSERVATIONS

ORIGINAL REPORT - 10/15/54

CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT ARLV 001 10

4

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS LST

CEILING (FEET)	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING															
≥ 20000															
IV 18000															
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IV 0															

TOTAL NUMBER OF OBSERVATIONS

U.S. NAVAL WEATHER SERVICE

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

NUMBER OF

CEILING FEET	VISIBILITY, STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ½	≥ ¼	≥ ⅛	≥ 1/16	≥ 1/32	≥ 1/64	≥ 0
NO CEILING																
≥ 20000																
IV 18000																
IV 16000																
IV 14000																
IV 12000																
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TOTAL NUMBER OF OBSERVATIONS

COMPUTED BY

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

HOURLY

CEILING FEET	VISIBILITY, STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ 1	≥ ½	≥ ½	≥ ¼	≥ ¼	≥ 0	≥ 0
NO CEILING																
≥ 20000																
18000																
16000																
14000																
12000																
10000																
9000																
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TOTAL NUMBER OF OBSERVATIONS

ORIGINAL CEILING

NAVAL WEATHER SERVICE DETACHMENT, ASHLEY, ILL.

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	$\geq 2\frac{1}{2}$	≥ 2	$\geq 1\frac{1}{2}$	$\geq 1\frac{1}{4}$	≥ 1	$\geq \frac{3}{4}$	$\geq \frac{1}{2}$	$\geq \frac{1}{4}$	$\geq \frac{1}{8}$	≥ 0	
NO CEILING	
IV 20000	
IV 18000	
IV 16000	
IV 14000	
IV 12000	
IV 10000	
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IV 300	
IV 200	
IV 100	
IV 0	

TOTAL NUMBER OF OBSERVATIONS

DIRNAVJCEANMET SMS

4

NAVAL WEATHER SERVICE DETACHMENT, ARLIE, GUATEMALA

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

HOURS

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	$\geq 2\frac{1}{2}$	≥ 2	$\geq 1\frac{1}{2}$	$\geq 1\frac{1}{4}$	≥ 1	$\geq \frac{3}{4}$	$\geq \frac{1}{2}$	$\geq \frac{1}{4}$	$\geq \frac{1}{8}$	≥ 0	≥ 0
NO CEILING																
≥ 20000																
IV 18000																
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TOTAL NUMBER OF OBSERVATIONS

INPNVUCEANMET 5505

NAVY WEATHER SERVICE DETACHMENT, WASHINGTON

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

NO. OF

CEILING FEET	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 0	≥ 0
NO CEILING															
≥ 20000															
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TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCANMET SMOS

4

NATIONAL WEATHER SERVICE METEOROLOGICAL SERVICE

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

HOURS

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/16	≥ 0	≥ 0
NO CEILING																
≥ 20000																
IV 18000																
IV 16000																
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TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET 0005

NO. 100 WEATHER REPORT (FORM 100-1) (REV. 1-1-57)

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

NO. OF HOURS

CEILING FEET	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 0	≥ 0
NO CEILING															
IV 20000															
IV 18000															
IV 16000															
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IV 0															

TOTAL NUMBER OF OBSERVATIONS

FORM 100-1 (REV. 1-1-57)

NATIONAL WEATHER SERVICE - METEOROLOGICAL SERVICE

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ 1	≥ ½	≥ ¼	≥ ¼	≥ ¼	≥ 5/16	≥ ¼
NO CEILING																
IV 20000																
IV 18000																
IV 16000																
IV 14000																
IV 12000																
IV 10000																
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IV 0																

TOTAL NUMBER OF OBSERVATIONS

OFFICIAL RECORD

NATIONAL WEATHER SERVICE (FAA FORM 7100-1) (Rev. 1-1-79)

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

WINDS (KTS)

CEILING FEET	VISIBILITY - STATUTE MILES														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 0	≥ 0	≥ 0
NO CEILING															
≥ 20000															
≥ 18000															
≥ 16000															
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≥ 300															
≥ 200															
≥ 100															
≥ 0															

TOTAL NUMBER OF OBSERVATIONS

APPROVED FOR RELEASE BY NSA

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

DATE

CEILING FEET	VISIBILITY, STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ ⅛	≥ 1/16	≥ 1/32	≥ 0
NO CEILING																
≥ 20000																
18000																
16000																
14000																
12000																
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TOTAL NUMBER OF OBSERVATIONS

NUMBER OF OBSERVATIONS

NATIONAL WEATHER SERVICE WASHINGTON, D.C.

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY - STATUTE MILES													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 0	0
NO CEILING														
≥ 20000														
18000														
16000														
14000														
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TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

NAME OF STATION: _____

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

NUMBER OF

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/16	≥ 1/8	≥ 0
NO CEILING																
≥ 20000																
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TOTAL NUMBER OF OBSERVATIONS

DATE OF REPORT

NAME OF STATION _____

CEILING VERSUS VISIBILITY

STATION _____

STATION NAME _____

YEARS _____

MONTH _____

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING																
IV 20000																
IV 18000																
IV 16000																
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TOTAL NUMBER OF OBSERVATIONS _____

DATE OF PREPARATION _____

NATIONAL WEATHER SERVICE DETROIT, MICHIGAN

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

HOURS

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ 1/8	≥ 0
NO CEILING																
≥ 20000																
IV 18000																
IV 16000																
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TOTAL NUMBER OF OBSERVATIONS

DETROIT MET 5705

NAVY WEATHER SERVICE DETACHMENT WHEELER

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ½	≥ ¼	≥ 1/8	≥ 1/16	≥ 1/32	≥ 1/64	≥ 0
NO CEILING																
≥ 20000																
IV 18000																
IV 16000																
IV 14000																
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IV 300																
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IV 100																
IV 0																

TOTAL NUMBER OF OBSERVATIONS

DATE OF PREPARATION

Author's Address: School of Information Systems, University of Virginia, Charlottesville, VA 22904-4138

MONTH

HQ 25, 57

TOTAL NUMBER OF OBSERVATIONS

LAW, AVOCC AND BT 3705

NAVAL WEATHER SERVICE DETACHMENT ASHKEVELT, NC

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/16	≥ 1/32	≥ 0
NO CEILING																
≥ 20000																
IV 18000																
IV 16000																
IV 14000																
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IV 200																
IV 100																
IV 0																

TOTAL NUMBER OF OBSERVATIONS

DATE AND TIME

NAVAL WEATHER SERVICE DETACHMENT, ASHVILLE, NC

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

HOURS L.S.T.

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 0	≥ 0
NO CEILING																
≥ 20000																
IV 18000																
IV 16000																
IV 14000																
IV 12000																
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IV 200																
IV 100																
IV 0																

TOTAL NUMBER OF OBSERVATIONS

DIRNAVJCEANTNET 0005

NAVAL WEATHER SERVICE DETACHMENT WHEELER

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEAR

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY STATUTE MILES														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ ⅛	≥ ⅙	≥ ⅓
NO CEILING															
≥ 20000															
IV 18000															
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IV 100															
IV 0															

TOTAL NUMBER OF OBSERVATIONS

UNUSUAL CEASURES

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

HOURS

CEILING FEET	VISIBILITY, STATUTE MILES														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1	≥ 1	≥ 1/2	≥ 1/4	≥ 1/8	≥ 5/16	≥ 0
NO CEILING															
≥ 20000															
18000															
16000															
14000															
12000															
10000															
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TOTAL NUMBER OF OBSERVATIONS

GRAPHICALLY PREPARED BY

NAVAL WEATHER SERVICE ATTACHMENT A-REVIS 1-50

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

WINDS

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 5/16	≥ 1/4	≥ 0
NO CEILING																
≥ 20000																
≥ 18000																
≥ 16000																
≥ 14000																
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≥ 0																

TOTAL NUMBER OF OBSERVATIONS

CHINA WINDS

NAVAL WEATHER SERVICE DETACHMENT WILKES BARRE, PA.

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

NO. OF OBS.

CEILING FEET	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 0	≥ 0
NO CEILING															
≥ 20000															
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IV 100															
IV 0															

TOTAL NUMBER OF OBSERVATIONS

NO. OF OBS.

CEILING VERSUS VISIBILITY

STATION NAME

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .75	≥ .5	≥ .25	≥ .15	≥ .1	≥ .05	≥ .01
NO CEILING																
≥ 20000																
≥ 18000																
≥ 16000																
≥ 14000																
≥ 12000																
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≥ 0																

TOTAL NUMBER OF OBSERVATIONS

STATION NAME

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEAR

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY, STATUTE MILES												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .25	≥ .1	≥ .05
NO CEILING													
≥ 20000													
18000													
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TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .4	≥ .3	≥ .25	≥ .2	≥ .15	≥ .1
NO CEILING																
≥ 20000																
≥ 18000																
≥ 16000																
≥ 14000																
≥ 12000																
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≥ 100																
≥ 0																

TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 1/16	≥ 0
NO CEILING																
≥ 20000																
≥ 18000																
≥ 16000																
≥ 14000																
≥ 12000																
≥ 10000																
≥ 9000																
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≥ 500																
≥ 400																
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≥ 100																
≥ 0																

TOTAL NUMBER OF OBSERVATIONS

6. *Staphylococcus aureus* (ATCC 12228) was grown in tryptic soy broth (TSB) (Difco) supplemented with 0.5% yeast extract (Difco) and 0.5% glucose (Difco) at 37°C. Cells were harvested at mid-log phase (OD₆₀₀ = 0.5) and washed with phosphate buffered saline (PBS) (pH 7.4) containing 0.1% bovine serum albumin (BSA) (Pierce and Warriner, 1990).

MONTH

HC, BS, S.

TOTAL NUMBER OF OBSERVATIONS
$$x^* = \begin{pmatrix} 1 \\ 0 \\ 0 \end{pmatrix} \in \mathbb{R}^3, \quad C = \begin{pmatrix} 1 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & 1 \end{pmatrix} \in \mathbb{R}^{3 \times 3}, \quad \lambda = 1 \in \mathbb{R}.$$

NATIONAL WEATHER SERVICE DETACHMENT ALBUQUERQUE

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

NO. OF

CEILING FEET	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 0	
NO CEILING															
≥ 20000															
≥ 18000															
≥ 16000															
≥ 14000															
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≥ 200															
≥ 100															
≥ 0															

TOTAL NUMBER OF OBSERVATIONS

UNITED STATES WEATHER SERVICE

NATIONAL WEATHER SERVICE METEOROLOGICAL BUREAU

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

HOURLY OBS.

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 5/16	≥ 1/4	≥ 0
NO CEILING																
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TOTAL NUMBER OF OBSERVATIONS

CHINA LAKE AND MET. STATION

NAVAL WEATHER SERVICE DETACHMENT, NEW BEDFORD, MA.

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

NO. OF

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 0	≥ 0
NO CEILING																
IV 20000																
IV 18000																
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TOTAL NUMBER OF OBSERVATIONS

FORM NO. 1-57

NATIONAL WEATHER SERVICE DETROIT, MICHIGAN

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURLY

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	¾	½	⅓	¼	⅓	0
NO CEILING																
≥ 20000																
18000																
16000																
14000																
12000																
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TOTAL NUMBER OF OBSERVATIONS

LOCAL WEATHER SERVICE

NAVAL WEATHER SERVICE DETACHMENT WASHINGTON

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS

CEILING FEET	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 0	≥ 0
NO CEILING															
≥ 20000															
18000															
16000															
14000															
12000															
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TOTAL NUMBER OF OBSERVATIONS

FORM NO. 10-67

NAVAL WEATHER SERVICE DETACHMENT, ASHLEIGH, IN

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

NO. OF HOURS

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 0	≥ 0
NO CEILING																
≥ 20000																
18000																
16000																
14000																
12000																
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TOTAL NUMBER OF OBSERVATIONS

DIRNAVOC/NAVDET 0505

NATIONAL WEATHER SERVICE DETACHMENT WASHINGTON, D.C.

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS U.S.T.

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 0	≥ 0
NO CEILING																
≥ 20000																
IV 18000																
IV 16000																
IV 14000																
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IV 100																
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TOTAL NUMBER OF OBSERVATIONS

ORIGINAL CEILING

CEILING VERSUS VISIBILITY

NAVY WEATHER SERVICE DATA REPORT FORM 1-67

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ½	≥ ¼	≥ 1/8	≥ 1/16	≥ 1/32	≥ 1/64	≥ 0
NO CEILING																
IV 20000																
IV 18000																
IV 16000																
IV 14000																
IV 12000																
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TOTAL NUMBER OF OBSERVATIONS

FORM 1-67 (REVISED 1-67)

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURLY

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ½	≥ ¼	≥ 1/8	≥ 1/16	≥ 1/32	≥ 1/64	≥ 0
NO CEILING																
≥ 20000																
IV 18000																
IV 16000																
IV 14000																
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IV 0																

TOTAL NUMBER OF OBSERVATIONS

REMARKS

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

NO. OF OBS.

CEILING FEET	VISIBILITY, STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 0.16	≥ 0.1	≥ 0
NO CEILING																
≥ 20000																
18000																
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TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY, STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 1/16	≥ 1/32	≥ 1/64
NO CEILING																
≥ 20000																
≥ 18000																
≥ 16000																
≥ 14000																
≥ 12000																
≥ 10000																
≥ 9000																
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TOTAL NUMBER OF OBSERVATIONS

REMARKS

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTHS

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .75	≥ .5	≥ .25	≥ .15	≥ .1	≥ .05	≥ .01
NO CEILING																
≥ 20000																
≥ 18000																
≥ 16000																
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≥ 12000																
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TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

U. S. A.

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 5/16	≥ 1/4	≥ 0
NO CEILING																
≥ 20000																
≥ 18000																
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≥ 500																
≥ 400																
≥ 300																
≥ 200																
≥ 100																
≥ 0																

TOTAL NUMBER OF OBSERVATIONS

NAME OF STATION _____

CEILING VERSUS VISIBILITY

STATION _____

STATION NAME _____

YEARS _____

MONTH _____

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS _____

CEILING FEET	VISIBILITY, STATUTE MILES														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 5/16	≥ 0
NO CEILING															
IV 20000															
IV 18000															
IV 16000															
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IV 0															

TOTAL NUMBER OF OBSERVATIONS _____

NAME OF STATION _____

As a result, the following conditions must be satisfied:

■ 中国 ■

• • •

TOTAL NUMBER OF OBSERVATIONS

... and the β values are

MAINE WEATHER SERVICE STATION DATA SHEET

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

NO. BY U.S.A.

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ½	≥ ¼	≥ 1/8	≥ 1/16	≥ 1/32	≥ 1/64	≥ 0
NO CEILING																
≥ 20000																
IV 18000																
IV 16000																
IV 14000																
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TOTAL NUMBER OF OBSERVATIONS

DATE RECEIVED

NAVY WEATHER SERVICE DETACHMENT WILSON

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

NO. OF

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 5/16	≥ 1/4	≥ 0
NO CEILING																
≥ 20000																
18000																
16000																
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12000																
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TOTAL NUMBER OF OBSERVATIONS

FORM NO. 10-61 (REV. 1-65)

NAVY WEATHER SERVICE DETACHMENT, ARLVILLE, NC

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

NO. OF

CEILING FEET	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 0	
NO CEILING															
≥ 20000															
IV 18000															
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IV 0															

TOTAL NUMBER OF OBSERVATIONS

FORM NO. 10-57

NAVAL WEATHER SERVICE DETACHMENT, R. H. H. L. E. N.

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

HOURS L. S. T.

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/16	≥ 1/8	≥ 0
NO CEILING																
≥ 20000																
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≥ 0																

TOTAL NUMBER OF OBSERVATIONS

DATE OF REPORT

NAVAL WEATHER SERVICE DETACHMENT, HONOLULU, T.H.

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

NO. OBS. 157

CEILING FEET	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ½	≥ ¼	≥ ⅛	≥ 1/16	≥ 0	≥ 0
NO CEILING															
IV 20000															
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IV 100															
IV 0															

TOTAL NUMBER OF OBSERVATIONS

DATA SOURCE: MET. STATION

NAVAL WEATHER SERVICE DETACHMENT WHEELER, NEB.

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS

CEILING FEET	VISIBILITY, STATUTE MILES														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 0	≥ 0	≥ 0
NO CEILING															
≥ 20000															
18000															
16000															
14000															
12000															
10000															
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TOTAL NUMBER OF OBSERVATIONS

FORM NO. 1, JULY 1957

CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

WINDS

CEILING FEET	VISIBILITY, STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .4	≥ .3	≥ .25	≥ .2	≥ .15	≥ .1
NO CEILING																
IV 20000																
IV 18000																
IV 16000																
IV 14000																
IV 12000																
IV 10000																
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IV 100																
IV 0																

TOTAL NUMBER OF OBSERVATIONS

WINDS

CEILING VERSUS VISIBILITY

U.S. WEATHER SERVICE STATION NUMBER

STATION

STATION NAME

YEARS

STATE

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY - STATUTE MILES											
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ ¼
NO CEILING												
≥ 20000												
≥ 18000												
≥ 16000												
≥ 14000												
≥ 12000												
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≥ 750												
≥ 600												
≥ 550												
≥ 450												
≥ 350												
≥ 200												
≥ 100												
≥ 0												

TOTAL NUMBER OF OBSERVATIONS

DATE OF REPORT

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

DATE

CEILING FEET	VISIBILITY: STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .75	≥ .5	≥ .25	≥ .15	≥ .1	≥ .05	≥ .01
NO CEILING																
≥ 20000																
≥ 18000																
≥ 16000																
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≥ 2000																
≥ 1500																
≥ 1000																
≥ 750																
≥ 500																
≥ 250																
≥ 100																
≥ 0																

TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

NAME OF STATION

STATION

STATION NAME

YEARS

MONTHS

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY STATUTE MILES														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 0	0
NO CEILING															
≥ 20000															
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TOTAL NUMBER OF OBSERVATIONS

DATE OF REPORT

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY - STATUTE MILES														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .25	≥ .15	≥ .1	≥ .05	≥ .01
NO CEILING															
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TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VIS

STATION

STATION NAME

YEARS

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY - STATUTE MILES													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1	≥ 3/4	≥ 1/2	≥ 1/4	≥ 1/8	≥ 0
NO. CEILING														
≥ 20000														
≥ 18000														
≥ 16000														
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≥ 600														
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≥ 400														
≥ 300														
≥ 200														
≥ 100														
≥ 0														

TOTAL NO. HOURS OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

STATION

CEILING FEET	VISIBILITY STATUTE MILES													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1	≥ 1/2	≥ 1/4	≥ 1/8	≥ 5/16	≥ 1/2
NO CEILING														
≥ 20000														
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≥ 100														
≥ 0														

TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

HOURS

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/5	≥ 1/10	≥ 0
NO CEILING																
≥ 20000																
≥ 18000																
≥ 16000																
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≥ 0																

TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

NUMBER OF

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/16	≥ 1/32	≥ 0
NO CEILING																
≥ 20000																
IV 18000																
IV 16000																
IV 14000																
IV 12000																
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IV 9000																
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IV 0																

TOTAL NUMBER OF OBSERVATIONS

NATIONAL WEATHER SERVICE WASHINGTON, D. C.

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

NO. OF

CEILING FEET	VISIBILITY - STATUTE MILES														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ½	≥ ¼	≥ 1/8	≥ 1/16	≥ 1/32	≥ 0
NO CEILING															
≥ 20000															
≥ 18000															
≥ 16000															
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≥ 200															
≥ 100															
≥ 0															

TOTAL NUMBER OF OBSERVATIONS

REMARKS

NAVAL WEATHER SERVICE DETAIL REPORT FORM NO. 1-57

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

NO. 55-1-57

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/16	≥ 1/32	≥ 0
NO CEILING																
≥ 20000																
≥ 18000																
≥ 16000																
≥ 14000																
≥ 12000																
≥ 10000																
≥ 9000																
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TOTAL NUMBER OF OBSERVATIONS

REMARKS

NO. 100 WEATHER RECORD (FOR STATION USE ONLY)

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 0	≥ 0
NO CEILING																
≥ 20000																
IV 18000																
IV 16000																
IV 14000																
IV 12000																
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TOTAL NUMBER OF OBSERVATIONS

STATION CLEARANCE

STATION

STATION NAME

PL 95

4444

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

[illegible]

NAVWEASERVCOM

10

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

NAVWEASERVCOM

STATION

STATION NAME

PERIOD



PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

[illegible]

STAFF NAMES

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS:

[illegible]

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PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

1512

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

NAVY:AS:R:OW

SKY COVER

574-575

S. A. S. 5.5001

11

100

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

7. **7. LASER VOLUME**

AD A150 382

SUMMARY OF METEOROLOGICAL OBSERVATIONS SURFACE (SMOS)
NORFOLK VIRGINIA(U) NAVAL OCEANOGRAPHY COMMAND
DETACHMENT ASHEVILLE NC NOV 83

44

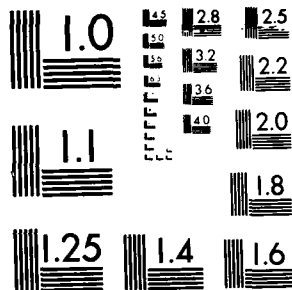
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MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

STATION

STATION NAME

PERIOD

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

[illegible]

SKY COVER

STATION	STATION
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72-11

12

STATION

STATION NAME

PERIOD

NONIUM

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.	
		0	1	2	3	4	5	6	7	8	9			10
Feb	11	52.7			25.3						15.7	22.7	4.0	200
	14	26.7			25.3						23.7	21.7	5.1	100
	17	17.7			11.7						25.3	24.	5.8	100
	18	25.7			10.0						24.7	25.7	5.6	100
	17	15.7			15.7						27.7	24.2	5.8	100
	1	17.7			11.3						23.7	27.2	5.8	100
	1	1 .7			24.7						24.3	17.7	5.8	100
	22	24.			25.7						1 .7	24.0	5.1	100

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RECORDED

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

[illegible]

NAVWEASERVCOM

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1. 8 y

STATION

STATION NAME

PERIOD

MONTH

[illegible]

NAVWEASERVCOM

SKY COVER

STATION _____ **STATION NAME** _____

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22

STATION

STATION NAME

PERIOD

MONT

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

[illegible]

NAVWEASERVCOM

SKY COVER

STATION

STATION NAME

PERIOD

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.	
		0	1	2	3	4	5	6	7	8	9			10
JAN	0000	20.1			17.7						13.9	42.4	6.7	2470
FEB	0000	20.7			20.1						14.7	37.4	6.6	2350
MAR	0000	21.1			20.9						16.2	42.7	6.7	2400
APR	0000	20.4			23.5						17.7	41.1	6.5	2400
MAY	0000	10.0			27.1						11.0	36.0	6.2	2400
JUN	0000	10.7			27.1						25.6	30.7	6.1	2400
JUL	0000	10.0			20.1						25.6	14.9	6.7	2400
AUG	0000	10.1			30.7						20.4	11.7	6.5	2400
SEP	0000	20.1			20.6						23.7	24.9	6.5	2400
OCT	0000	20.7			27.4						19.9	25.4	6.2	2400
NOV	0000	20.4			23.6						17.1	37.1	6.7	2300
DEC	0000	20.0			17.1						14.9	43.1	6.7	2470
TOTALS		20.7			25.4						19.8	32.0	6.7	29009

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Asheville, N. C.

PART E PSYCHROMETRIC SUMMARIES

In this section are presented various summaries of dry- and wet-bulb temperatures, dew points, and relative humidity. The order and manner of presentation follows:

1. Cumulative percentage frequency of occurrence - derived from daily observations and presented by month and annual for all years combined. These tabulations provide the cumulative percentage frequency to tenths of temperature by 5-degree Fahrenheit increments, plus mean temperature, standard deviation, and total number of observations in three separate tables as follows:
 - a. Daily maximum temperature
 - b. Daily minimum temperature
 - c. Daily mean temperature
2. Extreme values - derived from daily observations with extreme value given for each year and month of record available. Extremes are provided for a month if all days for a month contain valid observations. All months for a year must have valid extremes before the ANNUAL value is selected for that year. Means and standard deviations are computed for months and annual when four or more values are present for any column. Two tables of daily extreme temperatures are prepared:
 - a. Extreme maximum temperature
 - b. Extreme minimum temperature

NOTE: A supplementary list also provides extreme temperatures when less than a full month is reported.
3. Bivariate percentage frequency distribution and computations of dry-bulb versus wet-bulb temperature. This tabulation is derived from 3-hourly observations and is presented by month and annual, all hours and all years combined. The following information is provided:
 - a. The main body of the summary consists of a bivariate percentage frequency distribution of wet-bulb depression in 17 classes spread horizontally; by 2-degree intervals of dry-bulb temperature vertically. Also provided for each dry-bulb temperature interval is the total no. of observations with dry-bulb and wet-bulb temperature combined; and again for dry-bulb, wet-bulb, and dew-point temperatures separately. Total observations for these four items is also provided in two lines at end of each tabulation table, which may require two pages in some cases.

NOTE: A percentage frequency in this table of ".0" represents one or more occurrences amounting to less than .05 percent.

- b. Statistical data for the individual elements of relative humidity, dry-bulb, wet-bulb, and dew-point temperatures are shown in the section at the bottom left of the forms. These consist of the sum of squares ($\sum X^2$), sums of values ($\sum X$), means (\bar{X}), and standard deviations (σx). The number of observations used in the computations for each element is also shown.
- c. At the lower right of the form are given the mean number of hours of occurrence for six ranges of dry-bulb, wet-bulb, and dew-point temperatures, and total number of hours possible in the period represented. Mean number of hours is shown to tenths and indicates mean number of hours per year in the annual summary, or mean number of hours per month in the tabulations by month.

NOTE: Wet-bulb temperature usually was not reported prior to 1946. Relative humidity usually was not reported prior to 1949, nor subsequent to June 1958; and was computed by machine methods for observations recorded during these periods. All values of dew-point temperature and relative humidity are with respect to water, unless otherwise indicated.

- 4. Means and standard deviations - These tabulations are derived from hourly observations and present the mean, standard deviation, and total number of observations for the eight standard 3-hour groups, by month and annual and again at the bottom for all hours combined. Records for all years available are combined. Tables are prepared for the following:
 - a. Dry-bulb temperature
 - b. Wet-bulb temperature
 - c. Dew-point temperature
- 5. Cumulative percentage frequency of occurrence of relative humidity - This summary is derived from hourly observations and presents the cumulative percentage frequency of occurrence of relative humidity by increments of 10% classes, plus the mean relative humidity and total number of observations in two tables.
 - a. Table 1 is prepared by month and annual, all years combined, with month being the vertical argument.
 - b. Table 2 is prepared by month by standard 3-hour groups, with the hour groups being the vertical argument and a separate page for each month. All years are also combined for this summary.
- 6. Percentage frequency of occurrence of dry-bulb temperature versus wind direction - This tabulation is derived from hourly observations and is presented by month and annual, all hours and years combined. The main body of the summary consists of dry bulb temperatures spread vertically in four degree increments and horizontally by eight wind directions (plus calm).

DAILY TEMPERATURES

STATION _____ STATION NAME _____ YEARS _____

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM DAILY OBSERVATIONS)

TEMP (°F)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1													
2													
3													
4													
5													
6													
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99													
100													
MEAN													
S D													
TOTAL OBS													

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DAILY TEMPERATURES

STATION

STATION NAME

YEARS

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM DAILY OBSERVATIONS)

TEMP (°F)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1													
2													
3													
4													
5													
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99													
100													
MEAN													
S D													
TOTAL OBS													

NAVWEASERVCOM

4

DAILY TEMPERATURES

STATION

STATION NAME

YEARS

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM DAILY OBSERVATIONS)

TEMP (°F)	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
14						0.4	0.1	0.0					0.5
15					0.1	0.5	7.4	52.8	45.6	10.7			1.0
16			0.4	7.0	17.6	56.0	85.2	92.4	95.2	98.0			99.9
17		0.3	1.7	12.1	41.3	70.6	83.9	97.9	99.0	99.9	1.0		1.0
18	1.0	1.5	7.2	25.9	54.4	76.6	89.7	99.8	99.9	99.9	99.9	1.0	1.0
19		4.5	15.2	40.0	65.4	89.6	98.0	100.0	100.0	100.0	100.0	100.0	100.0
20	1.0	10.0	27.2	67.1	91.0	100.0			99.9	100.0	100.0	100.0	100.0
21	21.1	23.2	44.0	80.0	94.3				100.0	100.0	100.0	100.0	100.0
22	7.1	29.6	64.8	87.7	100.0					100.0	100.0	100.0	100.0
23	50.0	79.1	87.7	99.5						100.0	100.0	100.0	100.0
24	10.1	81.3	95.3	100.0							100.0	100.0	100.0
25	10.1	82.8	99.0								100.0	100.0	100.0
26	7.0	86.8	99.0								100.0	100.0	100.0
27	0.0	89.7	100.0								100.0	100.0	100.0
28	19.0	100.0										100.0	100.0
29	1.0												100.0
30													100.0
31													100.0
32													100.0
33													100.0
34													100.0
35													100.0
36													100.0
37													100.0
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94													100.0
95													100.0
96													100.0
97													100.0
98													100.0
99													100.0
100													100.0
MEAN	4.0	4.0	4.0	5.0	6.0	7.0	10.0	10.0	10.0	8.0	6.0	5.0	6.0
S D	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
TOTAL OBS	1	1	1	1	1	1	1	1	1	1	1	1	1

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NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE NORTH CAROLINA

DAILY AVERAGE/EXTREME TEMPERATURES

STATION		STATION NAME				YEARS		MONTH			
DAY	MEAN TEMP		MAXIMUM TEMP				MINIMUM TEMP				
	AVERAGE		AVERAGE		EXTREME		AVERAGE		EXTREME		
	F	C	F	C	F	C	DATE	F	C	F	C
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
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21											
22											
23											
24											
25											
26											
27											
28											
29											
30											
31											
Monthly											

*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

4

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE NORTH CAROLINA

DAILY AVERAGE/EXTREME TEMPERATURES

STATION		STATION NAME		YEARS		MONTH	
DATE	MEAN TEMP AVERAGE		MAXIMUM TEMP		DATE	MINIMUM TEMP	
	F	C	AVERAGE F C	EXTREME F C		AVERAGE F C	EXTREME F C
1	48.0	9.0	48.0	77.0	1	38.0	10.0
2	48.0	9.0	48.0	77.0	2	38.0	10.0
3	48.0	9.0	48.0	77.0	3	38.0	10.0
4	48.0	9.0	48.0	77.0	4	38.0	10.0
5	48.0	9.0	48.0	77.0	5	38.0	10.0
6	48.0	9.0	48.0	77.0	6	38.0	10.0
7	48.0	9.0	48.0	77.0	7	38.0	10.0
8	48.0	9.0	48.0	77.0	8	38.0	10.0
9	48.0	9.0	48.0	77.0	9	38.0	10.0
10	48.0	9.0	48.0	77.0	10	38.0	10.0
11	48.0	9.0	48.0	77.0	11	38.0	10.0
12	48.0	9.0	48.0	77.0	12	38.0	10.0
13	48.0	9.0	48.0	77.0	13	38.0	10.0
14	48.0	9.0	48.0	77.0	14	38.0	10.0
15	48.0	9.0	48.0	77.0	15	38.0	10.0
16	48.0	9.0	48.0	77.0	16	38.0	10.0
17	48.0	9.0	48.0	77.0	17	38.0	10.0
18	48.0	9.0	48.0	77.0	18	38.0	10.0
19	48.0	9.0	48.0	77.0	19	38.0	10.0
20	48.0	9.0	48.0	77.0	20	38.0	10.0
21	48.0	9.0	48.0	77.0	21	38.0	10.0
22	48.0	9.0	48.0	77.0	22	38.0	10.0
23	48.0	9.0	48.0	77.0	23	38.0	10.0
24	48.0	9.0	48.0	77.0	24	38.0	10.0
25	48.0	9.0	48.0	77.0	25	38.0	10.0
26	48.0	9.0	48.0	77.0	26	38.0	10.0
27	48.0	9.0	48.0	77.0	27	38.0	10.0
28	48.0	9.0	48.0	77.0	28	38.0	10.0
29	48.0	9.0	48.0	77.0	29	38.0	10.0
30	48.0	9.0	48.0	77.0	30	38.0	10.0
31	48.0	9.0	48.0	77.0	31	38.0	10.0
Monthly	48.0	9.0	48.0	77.0		38.0	10.0

*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

4

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

DAILY AVERAGE/EXTREME TEMPERATURES

STATION

STATION NAME

YEARS

MONTH

DAY	MEAN TEMP		MAXIMUM TEMP				MINIMUM TEMP			
	AVERAGE		AVERAGE		EXTREME		AVERAGE		EXTREME	
	F	C	F	C	F	C	F	C	F	C
1	48.2	9.0	58.3	14.6	71	21.7	48.2	9.0	48.2	9.0
2	48.2	9.0	58.3	14.6	71	21.7	48.2	9.0	48.2	9.0
3	48.2	9.0	58.3	14.6	71	21.7	48.2	9.0	48.2	9.0
4	48.2	9.0	58.3	14.6	71	21.7	48.2	9.0	48.2	9.0
5	48.2	9.0	58.3	14.6	71	21.7	48.2	9.0	48.2	9.0
6	48.2	9.0	58.3	14.6	71	21.7	48.2	9.0	48.2	9.0
7	48.2	9.0	58.3	14.6	71	21.7	48.2	9.0	48.2	9.0
8	48.2	9.0	58.3	14.6	71	21.7	48.2	9.0	48.2	9.0
9	48.2	9.0	58.3	14.6	71	21.7	48.2	9.0	48.2	9.0
10	48.2	9.0	58.3	14.6	71	21.7	48.2	9.0	48.2	9.0
11	48.2	9.0	58.3	14.6	71	21.7	48.2	9.0	48.2	9.0
12	48.2	9.0	58.3	14.6	71	21.7	48.2	9.0	48.2	9.0
13	48.2	9.0	58.3	14.6	71	21.7	48.2	9.0	48.2	9.0
14	48.2	9.0	58.3	14.6	71	21.7	48.2	9.0	48.2	9.0
15	48.2	9.0	58.3	14.6	71	21.7	48.2	9.0	48.2	9.0
16	48.2	9.0	58.3	14.6	71	21.7	48.2	9.0	48.2	9.0
17	48.2	9.0	58.3	14.6	71	21.7	48.2	9.0	48.2	9.0
18	48.2	9.0	58.3	14.6	71	21.7	48.2	9.0	48.2	9.0
19	48.2	9.0	58.3	14.6	71	21.7	48.2	9.0	48.2	9.0
20	48.2	9.0	58.3	14.6	71	21.7	48.2	9.0	48.2	9.0
21	48.2	9.0	58.3	14.6	71	21.7	48.2	9.0	48.2	9.0
22	48.2	9.0	58.3	14.6	71	21.7	48.2	9.0	48.2	9.0
23	48.2	9.0	58.3	14.6	71	21.7	48.2	9.0	48.2	9.0
24	48.2	9.0	58.3	14.6	71	21.7	48.2	9.0	48.2	9.0
25	48.2	9.0	58.3	14.6	71	21.7	48.2	9.0	48.2	9.0
26	48.2	9.0	58.3	14.6	71	21.7	48.2	9.0	48.2	9.0
27	48.2	9.0	58.3	14.6	71	21.7	48.2	9.0	48.2	9.0
28	48.2	9.0	58.3	14.6	71	21.7	48.2	9.0	48.2	9.0
29	48.2	9.0	58.3	14.6	71	21.7	48.2	9.0	48.2	9.0
30	48.2	9.0	58.3	14.6	71	21.7	48.2	9.0	48.2	9.0
31	48.2	9.0	58.3	14.6	71	21.7	48.2	9.0	48.2	9.0
Monthly	48.2	9.0	58.3	14.6	71	21.7	48.2	9.0	48.2	9.0

*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

4

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

DAILY AVERAGE/EXTREME TEMPERATURES

STATION

STATION NAME

YEARS

MONTH

DAY	MEAN TEMP		MAXIMUM TEMP				MINIMUM TEMP			
	AVERAGE		AVERAGE		EXTREME		AVERAGE		EXTREME	
	F	C	F	C	F	C	F	C	F	C
1	50.0	10.0	60.0	15.6	80.0	26.7	40.0	4.4	20.0	-6.7
2	50.0	10.0	60.0	15.6	80.0	26.7	40.0	4.4	20.0	-6.7
3	50.0	10.0	60.0	15.6	80.0	26.7	40.0	4.4	20.0	-6.7
4	50.0	10.0	60.0	15.6	80.0	26.7	40.0	4.4	20.0	-6.7
5	50.0	10.0	60.0	15.6	80.0	26.7	40.0	4.4	20.0	-6.7
6	50.0	10.0	60.0	15.6	80.0	26.7	40.0	4.4	20.0	-6.7
7	50.0	10.0	60.0	15.6	80.0	26.7	40.0	4.4	20.0	-6.7
8	50.0	10.0	60.0	15.6	80.0	26.7	40.0	4.4	20.0	-6.7
9	50.0	10.0	60.0	15.6	80.0	26.7	40.0	4.4	20.0	-6.7
10	50.0	10.0	60.0	15.6	80.0	26.7	40.0	4.4	20.0	-6.7
11	50.0	10.0	60.0	15.6	80.0	26.7	40.0	4.4	20.0	-6.7
12	50.0	10.0	60.0	15.6	80.0	26.7	40.0	4.4	20.0	-6.7
13	50.0	10.0	60.0	15.6	80.0	26.7	40.0	4.4	20.0	-6.7
14	50.0	10.0	60.0	15.6	80.0	26.7	40.0	4.4	20.0	-6.7
15	50.0	10.0	60.0	15.6	80.0	26.7	40.0	4.4	20.0	-6.7
16	50.0	10.0	60.0	15.6	80.0	26.7	40.0	4.4	20.0	-6.7
17	50.0	10.0	60.0	15.6	80.0	26.7	40.0	4.4	20.0	-6.7
18	50.0	10.0	60.0	15.6	80.0	26.7	40.0	4.4	20.0	-6.7
19	50.0	10.0	60.0	15.6	80.0	26.7	40.0	4.4	20.0	-6.7
20	50.0	10.0	60.0	15.6	80.0	26.7	40.0	4.4	20.0	-6.7
21	50.0	10.0	60.0	15.6	80.0	26.7	40.0	4.4	20.0	-6.7
22	50.0	10.0	60.0	15.6	80.0	26.7	40.0	4.4	20.0	-6.7
23	50.0	10.0	60.0	15.6	80.0	26.7	40.0	4.4	20.0	-6.7
24	50.0	10.0	60.0	15.6	80.0	26.7	40.0	4.4	20.0	-6.7
25	50.0	10.0	60.0	15.6	80.0	26.7	40.0	4.4	20.0	-6.7
26	50.0	10.0	60.0	15.6	80.0	26.7	40.0	4.4	20.0	-6.7
27	50.0	10.0	60.0	15.6	80.0	26.7	40.0	4.4	20.0	-6.7
28	50.0	10.0	60.0	15.6	80.0	26.7	40.0	4.4	20.0	-6.7
29	50.0	10.0	60.0	15.6	80.0	26.7	40.0	4.4	20.0	-6.7
30	50.0	10.0	60.0	15.6	80.0	26.7	40.0	4.4	20.0	-6.7
31	50.0	10.0	60.0	15.6	80.0	26.7	40.0	4.4	20.0	-6.7
Monthly	50.0	10.0	60.0	15.6	80.0	26.7	40.0	4.4	20.0	-6.7

*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

4

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE NORTH CAROLINA

DAILY AVERAGE/EXTREME TEMPERATURES

STATION			STATION NAME				YEARS		MONTH			
DAY	MEAN TEMP		MAXIMUM TEMP						MINIMUM TEMP			
	AVERAGE		AVERAGE		EXTREME		DATE	AVERAGE		EXTREME		
	F	C	F	C	F	C		F	C	F	C	
1	59	15.0	70	21.1	6	20.0	1/4	39	4.0	1/1	1	
2	58	14.4	70	21.1	2	38.9	1/5	40	4.4	1/2	1	
3	54	12.2	70	21.1	2	38.9	1/6	40	4.4	1/3	1	
4	55	13.0	70	21.1	2	38.9	1/6	40	4.4	1/4	1	
5	57	13.9	70	21.1	2	38.9	1/7	40	4.4	1/5	1	
6	58	14.4	70	21.1	2	38.9	1/8	40	4.4	1/6	1	
7	58	14.4	70	21.1	2	38.9	1/8	40	4.4	1/7	1	
8	58	14.4	70	21.1	2	38.9	1/9	40	4.4	1/8	1	
9	58	14.4	70	21.1	2	38.9	1/9	40	4.4	1/9	1	
10	58	14.4	70	21.1	2	38.9	1/10	40	4.4	1/10	1	
11	60	15.6	70	21.1	2	38.9	1/10	40	4.4	1/11	1	
12	60	15.6	70	21.1	2	38.9	1/11	40	4.4	1/12	1	
13	60	15.6	70	21.1	2	38.9	1/12	40	4.4	1/13	1	
14	60	15.6	70	21.1	2	38.9	1/13	40	4.4	1/14	1	
15	60	15.6	70	21.1	2	38.9	1/14	40	4.4	1/15	1	
16	60	15.6	70	21.1	2	38.9	1/15	40	4.4	1/16	1	
17	60	15.6	70	21.1	2	38.9	1/16	40	4.4	1/17	1	
18	60	15.6	70	21.1	2	38.9	1/17	40	4.4	1/18	1	
19	60	15.6	70	21.1	2	38.9	1/18	40	4.4	1/19	1	
20	60	15.6	70	21.1	2	38.9	1/19	40	4.4	1/20	1	
21	60	15.6	70	21.1	2	38.9	1/20	40	4.4	1/21	1	
22	60	15.6	70	21.1	2	38.9	1/21	40	4.4	1/22	1	
23	60	15.6	70	21.1	2	38.9	1/22	40	4.4	1/23	1	
24	60	15.6	70	21.1	2	38.9	1/23	40	4.4	1/24	1	
25	60	15.6	70	21.1	2	38.9	1/24	40	4.4	1/25	1	
26	60	15.6	70	21.1	2	38.9	1/25	40	4.4	1/26	1	
27	60	15.6	70	21.1	2	38.9	1/26	40	4.4	1/27	1	
28	60	15.6	70	21.1	2	38.9	1/27	40	4.4	1/28	1	
29	60	15.6	70	21.1	2	38.9	1/28	40	4.4	1/29	1	
30	60	15.6	70	21.1	2	38.9	1/29	40	4.4	1/30	1	
31	60	15.6	70	21.1	2	38.9	1/30	40	4.4	1/31	1	
Monthly	60	15.6	70	21.1	2	38.9	1/31	40	4.4	1/31	1	

*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

4

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE NORTH CAROLINA

DAILY AVERAGE/EXTREME TEMPERATURES

STATION		STATION NAME		YEARS		MONTH	
DAY	MEAN TEMP AVERAGE		MAXIMUM TEMP AVERAGE		EXTREME		DATE
	F	C	F	C	F	C	
1	64.0	17.8	70.0	21.1	83.0	28.3	1/1
2	64.0	17.8	70.0	21.1	83.0	28.3	1/2
3	64.0	17.8	70.0	21.1	83.0	28.3	1/3
4	64.0	17.8	70.0	21.1	83.0	28.3	1/4
5	64.0	17.8	70.0	21.1	83.0	28.3	1/5
6	64.0	17.8	70.0	21.1	83.0	28.3	1/6
7	64.0	17.8	70.0	21.1	83.0	28.3	1/7
8	64.0	17.8	70.0	21.1	83.0	28.3	1/8
9	64.0	17.8	70.0	21.1	83.0	28.3	1/9
10	64.0	17.8	70.0	21.1	83.0	28.3	1/10
11	64.0	17.8	70.0	21.1	83.0	28.3	1/11
12	64.0	17.8	70.0	21.1	83.0	28.3	1/12
13	64.0	17.8	70.0	21.1	83.0	28.3	1/13
14	64.0	17.8	70.0	21.1	83.0	28.3	1/14
15	64.0	17.8	70.0	21.1	83.0	28.3	1/15
16	64.0	17.8	70.0	21.1	83.0	28.3	1/16
17	64.0	17.8	70.0	21.1	83.0	28.3	1/17
18	64.0	17.8	70.0	21.1	83.0	28.3	1/18
19	64.0	17.8	70.0	21.1	83.0	28.3	1/19
20	64.0	17.8	70.0	21.1	83.0	28.3	1/20
21	64.0	17.8	70.0	21.1	83.0	28.3	1/21
22	64.0	17.8	70.0	21.1	83.0	28.3	1/22
23	64.0	17.8	70.0	21.1	83.0	28.3	1/23
24	64.0	17.8	70.0	21.1	83.0	28.3	1/24
25	64.0	17.8	70.0	21.1	83.0	28.3	1/25
26	64.0	17.8	70.0	21.1	83.0	28.3	1/26
27	64.0	17.8	70.0	21.1	83.0	28.3	1/27
28	64.0	17.8	70.0	21.1	83.0	28.3	1/28
29	64.0	17.8	70.0	21.1	83.0	28.3	1/29
30	64.0	17.8	70.0	21.1	83.0	28.3	1/30
31	64.0	17.8	70.0	21.1	83.0	28.3	1/31
Monthly	64.0	17.8	70.0	21.1	83.0	28.3	1/31

*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

4

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

DAILY AVERAGE/EXTREME TEMPERATURES

STATION

STATION NAME

YEARS

MONTH

DAY	MEAN TEMP		MAXIMUM TEMP				DATE	MINIMUM TEMP				DATE
	AVERAGE		AVERAGE		EXTREME			AVERAGE		EXTREME		
	F	C	F	C	F	C		F	C	F	C	
1	7.4	21.4	7.7	21.7	27	30.7	1-18	12.1	10.0	4	3.7	1-7
2	7.4	21.4	7.7	21.7	27	30.7	1-18	12.1	10.0	4	3.7	1-7
3	7.4	21.4	7.7	21.7	27	30.7	1-18	12.1	10.0	4	3.7	1-7
4	7.4	21.4	7.7	21.7	27	30.7	1-18	12.1	10.0	4	3.7	1-7
5	7.4	21.4	7.7	21.7	27	30.7	1-18	12.1	10.0	4	3.7	1-7
6	7.4	21.4	7.7	21.7	27	30.7	1-18	12.1	10.0	4	3.7	1-7
7	7.4	21.4	7.7	21.7	27	30.7	1-18	12.1	10.0	4	3.7	1-7
8	7.4	21.4	7.7	21.7	27	30.7	1-18	12.1	10.0	4	3.7	1-7
9	7.4	21.4	7.7	21.7	27	30.7	1-18	12.1	10.0	4	3.7	1-7
10	7.4	21.4	7.7	21.7	27	30.7	1-18	12.1	10.0	4	3.7	1-7
11	7.4	21.4	7.7	21.7	27	30.7	1-18	12.1	10.0	4	3.7	1-7
12	7.4	21.4	7.7	21.7	27	30.7	1-18	12.1	10.0	4	3.7	1-7
13	7.4	21.4	7.7	21.7	27	30.7	1-18	12.1	10.0	4	3.7	1-7
14	7.4	21.4	7.7	21.7	27	30.7	1-18	12.1	10.0	4	3.7	1-7
15	7.4	21.4	7.7	21.7	27	30.7	1-18	12.1	10.0	4	3.7	1-7
16	7.4	21.4	7.7	21.7	27	30.7	1-18	12.1	10.0	4	3.7	1-7
17	7.4	21.4	7.7	21.7	27	30.7	1-18	12.1	10.0	4	3.7	1-7
18	7.4	21.4	7.7	21.7	27	30.7	1-18	12.1	10.0	4	3.7	1-7
19	7.4	21.4	7.7	21.7	27	30.7	1-18	12.1	10.0	4	3.7	1-7
20	7.4	21.4	7.7	21.7	27	30.7	1-18	12.1	10.0	4	3.7	1-7
21	7.4	21.4	7.7	21.7	27	30.7	1-18	12.1	10.0	4	3.7	1-7
22	7.4	21.4	7.7	21.7	27	30.7	1-18	12.1	10.0	4	3.7	1-7
23	7.4	21.4	7.7	21.7	27	30.7	1-18	12.1	10.0	4	3.7	1-7
24	7.4	21.4	7.7	21.7	27	30.7	1-18	12.1	10.0	4	3.7	1-7
25	7.4	21.4	7.7	21.7	27	30.7	1-18	12.1	10.0	4	3.7	1-7
26	7.4	21.4	7.7	21.7	27	30.7	1-18	12.1	10.0	4	3.7	1-7
27	7.4	21.4	7.7	21.7	27	30.7	1-18	12.1	10.0	4	3.7	1-7
28	7.4	21.4	7.7	21.7	27	30.7	1-18	12.1	10.0	4	3.7	1-7
29	7.4	21.4	7.7	21.7	27	30.7	1-18	12.1	10.0	4	3.7	1-7
30	7.4	21.4	7.7	21.7	27	30.7	1-18	12.1	10.0	4	3.7	1-7
31	7.4	21.4	7.7	21.7	27	30.7	1-18	12.1	10.0	4	3.7	1-7
Monthly	7.4	21.4	7.7	21.7	27	30.7	1-18	12.1	10.0	4	3.7	1-7

*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

4

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

DAILY AVERAGE/EXTREME TEMPERATURES

STATION

STATION NAME

YEARS

MONTH

MEAN TEMP AVERAGE			MAXIMUM TEMP					MINIMUM TEMP				
DAY	AVERAGE		AVERAGE		EXTREME		DATE	AVERAGE		EXTREME		DATE
	F	C	F	C	F	C		F	C	F	C	
1	7.0	2.2	5.0	1.1	9.0	5.0	1/1	3.0	-1.1	5.0	1.1	1/1
2	7.0	2.2	5.0	1.1	9.0	5.0	1/2	3.0	-1.1	5.0	1.1	1/2
3	7.0	2.2	5.0	1.1	9.0	5.0	1/3	3.0	-1.1	5.0	1.1	1/3
4	7.0	2.2	5.0	1.1	9.0	5.0	1/4	3.0	-1.1	5.0	1.1	1/4
5	7.0	2.2	5.0	1.1	9.0	5.0	1/5	3.0	-1.1	5.0	1.1	1/5
6	7.0	2.2	5.0	1.1	9.0	5.0	1/6	3.0	-1.1	5.0	1.1	1/6
7	7.0	2.2	5.0	1.1	9.0	5.0	1/7	3.0	-1.1	5.0	1.1	1/7
8	7.0	2.2	5.0	1.1	9.0	5.0	1/8	3.0	-1.1	5.0	1.1	1/8
9	7.0	2.2	5.0	1.1	9.0	5.0	1/9	3.0	-1.1	5.0	1.1	1/9
10	7.0	2.2	5.0	1.1	9.0	5.0	1/10	3.0	-1.1	5.0	1.1	1/10
11	7.0	2.2	5.0	1.1	9.0	5.0	1/11	3.0	-1.1	5.0	1.1	1/11
12	7.0	2.2	5.0	1.1	9.0	5.0	1/12	3.0	-1.1	5.0	1.1	1/12
13	7.0	2.2	5.0	1.1	9.0	5.0	1/13	3.0	-1.1	5.0	1.1	1/13
14	7.0	2.2	5.0	1.1	9.0	5.0	1/14	3.0	-1.1	5.0	1.1	1/14
15	7.0	2.2	5.0	1.1	9.0	5.0	1/15	3.0	-1.1	5.0	1.1	1/15
16	7.0	2.2	5.0	1.1	9.0	5.0	1/16	3.0	-1.1	5.0	1.1	1/16
17	7.0	2.2	5.0	1.1	9.0	5.0	1/17	3.0	-1.1	5.0	1.1	1/17
18	7.0	2.2	5.0	1.1	9.0	5.0	1/18	3.0	-1.1	5.0	1.1	1/18
19	7.0	2.2	5.0	1.1	9.0	5.0	1/19	3.0	-1.1	5.0	1.1	1/19
20	7.0	2.2	5.0	1.1	9.0	5.0	1/20	3.0	-1.1	5.0	1.1	1/20
21	7.0	2.2	5.0	1.1	9.0	5.0	1/21	3.0	-1.1	5.0	1.1	1/21
22	7.0	2.2	5.0	1.1	9.0	5.0	1/22	3.0	-1.1	5.0	1.1	1/22
23	7.0	2.2	5.0	1.1	9.0	5.0	1/23	3.0	-1.1	5.0	1.1	1/23
24	7.0	2.2	5.0	1.1	9.0	5.0	1/24	3.0	-1.1	5.0	1.1	1/24
25	7.0	2.2	5.0	1.1	9.0	5.0	1/25	3.0	-1.1	5.0	1.1	1/25
26	7.0	2.2	5.0	1.1	9.0	5.0	1/26	3.0	-1.1	5.0	1.1	1/26
27	7.0	2.2	5.0	1.1	9.0	5.0	1/27	3.0	-1.1	5.0	1.1	1/27
28	7.0	2.2	5.0	1.1	9.0	5.0	1/28	3.0	-1.1	5.0	1.1	1/28
29	7.0	2.2	5.0	1.1	9.0	5.0	1/29	3.0	-1.1	5.0	1.1	1/29
30	7.0	2.2	5.0	1.1	9.0	5.0	1/30	3.0	-1.1	5.0	1.1	1/30
31	7.0	2.2	5.0	1.1	9.0	5.0	1/31	3.0	-1.1	5.0	1.1	1/31
Monthly	7.0	2.2	5.0	1.1	9.0	5.0	1/31	3.0	-1.1	5.0	1.1	1/31

*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

4

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

DAILY AVERAGE/EXTREME TEMPERATURES

STATION		STATION NAME				YEARS		MONTH			
DAY	MEAN TEMP		MAXIMUM TEMP				DATE	MINIMUM TEMP		DATE	DATE
	AVERAGE		AVERAGE	EXTREME				AVERAGE	EXTREME		
	F	C	F	C	F	C		F	C		
1	7.4	13.3	4.7	4.4	2.2	-5.8	1/1	6.7	12.1	1/1	1/1
2	7.4	13.3	4.7	4.4	2.2	-5.8	1/2	6.7	12.1	1/2	1/2
3	7.4	13.3	4.7	4.4	2.2	-5.8	1/3	6.7	12.1	1/3	1/3
4	7.4	13.3	4.7	4.4	2.2	-5.8	1/4	6.7	12.1	1/4	1/4
5	7.4	13.3	4.7	4.4	2.2	-5.8	1/5	6.7	12.1	1/5	1/5
6	7.4	13.3	4.7	4.4	2.2	-5.8	1/6	6.7	12.1	1/6	1/6
7	7.4	13.3	4.7	4.4	2.2	-5.8	1/7	6.7	12.1	1/7	1/7
8	7.4	13.3	4.7	4.4	2.2	-5.8	1/8	6.7	12.1	1/8	1/8
9	7.4	13.3	4.7	4.4	2.2	-5.8	1/9	6.7	12.1	1/9	1/9
10	7.4	13.3	4.7	4.4	2.2	-5.8	1/10	6.7	12.1	1/10	1/10
11	7.4	13.3	4.7	4.4	2.2	-5.8	1/11	6.7	12.1	1/11	1/11
12	7.4	13.3	4.7	4.4	2.2	-5.8	1/12	6.7	12.1	1/12	1/12
13	7.4	13.3	4.7	4.4	2.2	-5.8	1/13	6.7	12.1	1/13	1/13
14	7.4	13.3	4.7	4.4	2.2	-5.8	1/14	6.7	12.1	1/14	1/14
15	7.4	13.3	4.7	4.4	2.2	-5.8	1/15	6.7	12.1	1/15	1/15
16	7.4	13.3	4.7	4.4	2.2	-5.8	1/16	6.7	12.1	1/16	1/16
17	7.4	13.3	4.7	4.4	2.2	-5.8	1/17	6.7	12.1	1/17	1/17
18	7.4	13.3	4.7	4.4	2.2	-5.8	1/18	6.7	12.1	1/18	1/18
19	7.4	13.3	4.7	4.4	2.2	-5.8	1/19	6.7	12.1	1/19	1/19
20	7.4	13.3	4.7	4.4	2.2	-5.8	1/20	6.7	12.1	1/20	1/20
21	7.4	13.3	4.7	4.4	2.2	-5.8	1/21	6.7	12.1	1/21	1/21
22	7.4	13.3	4.7	4.4	2.2	-5.8	1/22	6.7	12.1	1/22	1/22
23	7.4	13.3	4.7	4.4	2.2	-5.8	1/23	6.7	12.1	1/23	1/23
24	7.4	13.3	4.7	4.4	2.2	-5.8	1/24	6.7	12.1	1/24	1/24
25	7.4	13.3	4.7	4.4	2.2	-5.8	1/25	6.7	12.1	1/25	1/25
26	7.4	13.3	4.7	4.4	2.2	-5.8	1/26	6.7	12.1	1/26	1/26
27	7.4	13.3	4.7	4.4	2.2	-5.8	1/27	6.7	12.1	1/27	1/27
28	7.4	13.3	4.7	4.4	2.2	-5.8	1/28	6.7	12.1	1/28	1/28
29	7.4	13.3	4.7	4.4	2.2	-5.8	1/29	6.7	12.1	1/29	1/29
30	7.4	13.3	4.7	4.4	2.2	-5.8	1/30	6.7	12.1	1/30	1/30
31	7.4	13.3	4.7	4.4	2.2	-5.8	1/31	6.7	12.1	1/31	1/31
Monthly	7.4	13.3	4.7	4.4	2.2	-5.8	1/31	6.7	12.1	1/31	1/31

*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

4

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE NORTH CAROLINA

DAILY AVERAGE/EXTREME TEMPERATURES

STATION

STATION NAME

YEARS

MONTH

DAY	MEAN TEMP		MAXIMUM TEMP				MINIMUM TEMP			
	AVERAGE		AVERAGE		EXTREME		AVERAGE		EXTREME	
	F	C	F	C	F	C	F	C	F	C
1	54.7	12.6	64.7	18.7	84.7	29.3	34.7	3.6	44.7	6.6
2	54.7	12.6	64.7	18.7	84.7	29.3	34.7	3.6	44.7	6.6
3	54.7	12.6	64.7	18.7	84.7	29.3	34.7	3.6	44.7	6.6
4	54.7	12.6	64.7	18.7	84.7	29.3	34.7	3.6	44.7	6.6
5	54.7	12.6	64.7	18.7	84.7	29.3	34.7	3.6	44.7	6.6
6	54.7	12.6	64.7	18.7	84.7	29.3	34.7	3.6	44.7	6.6
7	54.7	12.6	64.7	18.7	84.7	29.3	34.7	3.6	44.7	6.6
8	54.7	12.6	64.7	18.7	84.7	29.3	34.7	3.6	44.7	6.6
9	54.7	12.6	64.7	18.7	84.7	29.3	34.7	3.6	44.7	6.6
10	54.7	12.6	64.7	18.7	84.7	29.3	34.7	3.6	44.7	6.6
11	54.7	12.6	64.7	18.7	84.7	29.3	34.7	3.6	44.7	6.6
12	54.7	12.6	64.7	18.7	84.7	29.3	34.7	3.6	44.7	6.6
13	54.7	12.6	64.7	18.7	84.7	29.3	34.7	3.6	44.7	6.6
14	54.7	12.6	64.7	18.7	84.7	29.3	34.7	3.6	44.7	6.6
15	54.7	12.6	64.7	18.7	84.7	29.3	34.7	3.6	44.7	6.6
16	54.7	12.6	64.7	18.7	84.7	29.3	34.7	3.6	44.7	6.6
17	54.7	12.6	64.7	18.7	84.7	29.3	34.7	3.6	44.7	6.6
18	54.7	12.6	64.7	18.7	84.7	29.3	34.7	3.6	44.7	6.6
19	54.7	12.6	64.7	18.7	84.7	29.3	34.7	3.6	44.7	6.6
20	54.7	12.6	64.7	18.7	84.7	29.3	34.7	3.6	44.7	6.6
21	54.7	12.6	64.7	18.7	84.7	29.3	34.7	3.6	44.7	6.6
22	54.7	12.6	64.7	18.7	84.7	29.3	34.7	3.6	44.7	6.6
23	54.7	12.6	64.7	18.7	84.7	29.3	34.7	3.6	44.7	6.6
24	54.7	12.6	64.7	18.7	84.7	29.3	34.7	3.6	44.7	6.6
25	54.7	12.6	64.7	18.7	84.7	29.3	34.7	3.6	44.7	6.6
26	54.7	12.6	64.7	18.7	84.7	29.3	34.7	3.6	44.7	6.6
27	54.7	12.6	64.7	18.7	84.7	29.3	34.7	3.6	44.7	6.6
28	54.7	12.6	64.7	18.7	84.7	29.3	34.7	3.6	44.7	6.6
29	54.7	12.6	64.7	18.7	84.7	29.3	34.7	3.6	44.7	6.6
30	54.7	12.6	64.7	18.7	84.7	29.3	34.7	3.6	44.7	6.6
31	54.7	12.6	64.7	18.7	84.7	29.3	34.7	3.6	44.7	6.6
Monthly	54.7	12.6	64.7	18.7	84.7	29.3	34.7	3.6	44.7	6.6

*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE NORTH CAROLINA

DAILY AVERAGE/EXTREME TEMPERATURES

STATION

STATION NAME

YEARS

MONTH

DAY	MEAN TEMP AVERAGE		MAXIMUM TEMP				DATE	MINIMUM TEMP				WIND
	F	C	AVERAGE	EXTREME	F	C		AVERAGE	EXTREME	F	C	
1			51.8	71.0	64	18.2	1-1	47.0	66.0	31	-0.5	1-1
2			57.0	72.0	61	16.1	1-2	47.0	66.0	31	-0.5	1-2
3			61.7	72.0	61	16.1	1-3	47.0	66.0	31	-0.5	1-3
4			64.0	72.0	61	16.1	1-4	47.0	66.0	31	-0.5	1-4
5	6.0	13.3	58.0	68.0	61	16.1	1-5	47.0	66.0	31	-0.5	1-5
6	2.0	7.2	61.0	71.0	61	16.1	1-6	47.0	66.0	31	-0.5	1-6
7	5.0	11.1	57.0	71.0	61	16.1	1-7	47.0	66.0	31	-0.5	1-7
8	4.0	7.2	61.0	71.0	71	21.7	1-8	47.0	66.0	31	-0.5	1-8
9			61.0	71.0	71	21.7	1-9	47.0	66.0	31	-0.5	1-9
10			61.0	71.0	61	16.1	1-10	47.0	66.0	31	-0.5	1-10
11			61.0	71.0	71	21.7	1-11	47.0	66.0	31	-0.5	1-11
12			61.0	71.0	71	21.7	1-12	47.0	66.0	31	-0.5	1-12
13			61.0	71.0	71	21.7	1-13	47.0	66.0	31	-0.5	1-13
14			61.0	71.0	71	21.7	1-14	47.0	66.0	31	-0.5	1-14
15			61.0	71.0	71	21.7	1-15	47.0	66.0	31	-0.5	1-15
16			61.0	71.0	71	21.7	1-16	47.0	66.0	31	-0.5	1-16
17			61.0	71.0	71	21.7	1-17	47.0	66.0	31	-0.5	1-17
18			61.0	71.0	71	21.7	1-18	47.0	66.0	31	-0.5	1-18
19			61.0	71.0	71	21.7	1-19	47.0	66.0	31	-0.5	1-19
20			61.0	71.0	71	21.7	1-20	47.0	66.0	31	-0.5	1-20
21			61.0	71.0	71	21.7	1-21	47.0	66.0	31	-0.5	1-21
22			61.0	71.0	71	21.7	1-22	47.0	66.0	31	-0.5	1-22
23			61.0	71.0	71	21.7	1-23	47.0	66.0	31	-0.5	1-23
24			61.0	71.0	71	21.7	1-24	47.0	66.0	31	-0.5	1-24
25			61.0	71.0	71	21.7	1-25	47.0	66.0	31	-0.5	1-25
26			61.0	71.0	71	21.7	1-26	47.0	66.0	31	-0.5	1-26
27			61.0	71.0	71	21.7	1-27	47.0	66.0	31	-0.5	1-27
28			61.0	71.0	71	21.7	1-28	47.0	66.0	31	-0.5	1-28
29			61.0	71.0	71	21.7	1-29	47.0	66.0	31	-0.5	1-29
30	4.0	7.2	61.0	71.0	71	21.7	1-30	47.0	66.0	31	-0.5	1-30
31												
Monthly			61.0	71.0	64	18.2	1-31	47.0	66.0	31	-0.5	1-31

*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

DAILY AVERAGE/EXTREME TEMPERATURES

STATION NO.		STATION NAME		YEARS		MONTH				
MEAN TEMP			MAXIMUM TEMP				MINIMUM TEMP			
AVERAGE			AVERAGE		EXTREME		AVERAGE		EXTREME	
DAY	F	C	F	C	DATE	F	C	F	C	DATE
1	50.4	10.2	50.0	10.0	1-10	36.0	2.2	36.0	2.2	1-10
2	50.4	10.2	50.0	10.0	1-11	36.0	2.2	36.0	2.2	1-11
3	50.4	10.2	50.0	10.0	1-12	36.0	2.2	36.0	2.2	1-12
4	50.4	10.2	50.0	10.0	1-13	36.0	2.2	36.0	2.2	1-13
5	50.4	10.2	50.0	10.0	1-14	36.0	2.2	36.0	2.2	1-14
6	50.4	10.2	50.0	10.0	1-15	36.0	2.2	36.0	2.2	1-15
7	50.4	10.2	50.0	10.0	1-16	36.0	2.2	36.0	2.2	1-16
8	50.4	10.2	50.0	10.0	1-17	36.0	2.2	36.0	2.2	1-17
9	50.4	10.2	50.0	10.0	1-18	36.0	2.2	36.0	2.2	1-18
10	50.4	10.2	50.0	10.0	1-19	36.0	2.2	36.0	2.2	1-19
11	50.4	10.2	50.0	10.0	1-20	36.0	2.2	36.0	2.2	1-20
12	50.4	10.2	50.0	10.0	1-21	36.0	2.2	36.0	2.2	1-21
13	50.4	10.2	50.0	10.0	1-22	36.0	2.2	36.0	2.2	1-22
14	50.4	10.2	50.0	10.0	1-23	36.0	2.2	36.0	2.2	1-23
15	50.4	10.2	50.0	10.0	1-24	36.0	2.2	36.0	2.2	1-24
16	50.4	10.2	50.0	10.0	1-25	36.0	2.2	36.0	2.2	1-25
17	50.4	10.2	50.0	10.0	1-26	36.0	2.2	36.0	2.2	1-26
18	50.4	10.2	50.0	10.0	1-27	36.0	2.2	36.0	2.2	1-27
19	50.4	10.2	50.0	10.0	1-28	36.0	2.2	36.0	2.2	1-28
20	50.4	10.2	50.0	10.0	1-29	36.0	2.2	36.0	2.2	1-29
21	50.4	10.2	50.0	10.0	1-30	36.0	2.2	36.0	2.2	1-30
22	50.4	10.2	50.0	10.0	1-31	36.0	2.2	36.0	2.2	1-31
23	50.4	10.2	50.0	10.0	2-1	36.0	2.2	36.0	2.2	2-1
24	50.4	10.2	50.0	10.0	2-2	36.0	2.2	36.0	2.2	2-2
25	50.4	10.2	50.0	10.0	2-3	36.0	2.2	36.0	2.2	2-3
26	50.4	10.2	50.0	10.0	2-4	36.0	2.2	36.0	2.2	2-4
27	50.4	10.2	50.0	10.0	2-5	36.0	2.2	36.0	2.2	2-5
28	50.4	10.2	50.0	10.0	2-6	36.0	2.2	36.0	2.2	2-6
29	50.4	10.2	50.0	10.0	2-7	36.0	2.2	36.0	2.2	2-7
30	50.4	10.2	50.0	10.0	2-8	36.0	2.2	36.0	2.2	2-8
31	50.4	10.2	50.0	10.0	2-9	36.0	2.2	36.0	2.2	2-9
Monthly	50.4	10.2	50.0	10.0		36.0	2.2	36.0	2.2	

*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

EXTREME VALUES

FROM DAILY OBSERVATIONS

STATION ASHEVILLE, NC STATION NAME ASHEVILLE, NC YEARS 1951-1952

MONTH YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
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NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

EXTREME VALUES

FROM DAILY RECORDS

STATION

STATION NAME

YEARS

MONTH YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL MONTHS
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SMOS

EXTREME VALUES

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STATION NAME

YEARS

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SMOS

EXTREME VALUES

FROM DATA TO CONCLUSIONS

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STATION NAME

YEARS

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SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

EXTREME VALUES

1015 8 14 1961
FROM DAILY OBSERVATIONS

STATION

STATION NAME

YEARS

WIND SPEEDS, FAHRENHEIT

MONTH YEAR	JAN	FEB	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
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MEAN	0.3	0.0	1.0	1.0	4.0	5.5	14.0	44.0	50.2	40.2	34.0	23.0	17.0
S D	0.3	0.2	3.0	3.0	4.0	5.0	14.0	30.0	30.0	30.0	40.0	40.0	40.0
TOTAL OBS	1	1	1	1	1	1	1	1	1	1	1	1	1

SMOS

EXTREME VALUES

STATION

4 FOLK. 2. 2011
STATION NAME

YEARS

WELL BEYOND FIVE, BUT
WAS ON LESS THAN FULL MONTHS.

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SMOS

PSYCHROMETRIC SUMMARY

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PSYCHROMETRIC SUMMARY

NOTE

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PSYCHROMETRIC SUMMARY

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NAVWEASERVCOM

MEANS AND STANDARD DEVIATIONS

STATION		MONTH NAME											
STATION	NO.	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	ANNUAL
MEAN													
S.D.													
TOTAL OBS.													
MEAN													
S.D.													
TOTAL OBS.													
MEAN													
S.D.													
TOTAL OBS.													
MEAN													
S.D.													
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S.D.													
TOTAL OBS.													
MEAN													
S.D.													
TOTAL OBS.													
MEAN													
S.D.													
TOTAL OBS.													
MEAN													
S.D.													
TOTAL OBS.													

NAVWFLASERVCOM.

NAYWEASERV.COM

RELATIVE HUMIDITY

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

MONTH	HOURS EST	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN								MEAN RELATIVE HUMIDITY	TOTAL NUMBER OBS
		10	20	30	40	50	60	70	80		
JAN	1	100	100	100	100	100	100	100	100	100	1
FEB	1	100	100	100	100	100	100	100	100	100	1
MAR	1	100	100	100	100	100	100	100	100	100	1
APR	1	100	100	100	100	100	100	100	100	100	1
MAY	1	100	100	100	100	100	100	100	100	100	1
JUN	1	100	100	100	100	100	100	100	100	100	1
JUL	1	100	100	100	100	100	100	100	100	100	1
AUG	1	100	100	100	100	100	100	100	100	100	1
SEP	1	100	100	100	100	100	100	100	100	100	1
OCT	1	100	100	100	100	100	100	100	100	100	1
NOV	1	100	100	100	100	100	100	100	100	100	1
DEC	1	100	100	100	100	100	100	100	100	100	1
TOTALS		100	100	100	100	100	100	100	100	100	12

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73-127

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4. A. 2.
MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN								MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.	
		10%	20%	30%	40%	50%	60%	70%	80%			90%
JAN	1	100.0	100.0	99.7	92.3	81.0	64.7	47.4	26.1	10.7	58.5	311
	2	100.0	100.0	100.0	85.2	63.0	42.6	27.9	13.6	7.0	50.5	311
	3	100.1	100.0	100.0	88.7	65.1	41.6	23.9	10.6	4.5	41.8	310
	4	100.0	100.0	98.4	84.5	69.7	49.7	33.2	22.9	9.7	42.4	310
	5	100.0	99.4	89.7	73.9	57.1	41.0	29.0	15.5	6.5	36.9	311
	6	100.0	98.4	87.4	73.5	56.4	41.9	25.7	17.1	7.1	37.0	310
	7	100.0	99.7	95.5	83.9	67.7	51.3	39.4	22.6	8.7	40.5	310
	8	100.0	100.0	98.1	92.6	81.0	63.5	44.2	24.5	9.7	37.1	310

1977 NORFOLK, VIRGINIA
STATION STATION NAME

77-12

10 -

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
1	177.0	11.0	9.7	2.7	10.7	61.7	39.3	17.0	8.3	54.7	120	
2	177.0	11.0	9.3	6.3	12.7	63.7	46.7	26.7	6.0	67.5	170	
3	177.0	11.0	9.3	5.7	11.0	63.0	43.0	22.0	5.7	66.4	170	
4	107.0	6.7	96.3	76.0	49.7	32.3	16.3	10.0	7.3	54.2	170	
5	177.0	94.7	64.0	41.0	39.7	26.3	14.7	7.0	7.3	48.5	170	
6	177.0	36.7	91.7	58.7	36.7	22.7	15.0	6.7	1.7	47.7	170	
7	107.0	9.7	91.3	76.7	55.7	30.0	21.3	13.7	7.3	55.1	170	
8	107.0	108.0	94.0	89.0	76.7	53.3	32.0	12.7	7.7	62.4	170	

NAVWEASERVCOM

RELATIVE HUMIDITY

 DATE: NOV 1966, MID-INITIAL
 STATION:

75-02

BY

PERIOD

MONTH

 CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

MONTH	HOURS -LST	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JAN	01	100.0	100.0	100.0	99.7	93.0	82.6	64.0	43.2	10.5	75.8	31
	02	100.0	100.0	100.0	98.4	86.1	65.5	41.9	25.3	10.0	77.5	31
	03	100.0	100.0	100.0	98.7	91.0	81.9	61.9	41.7	13.0	74.9	31
	04	100.0	100.0	98.1	91.0	75.0	55.5	39.4	19.0	4.0	64.1	31
	05	100.0	99.7	94.7	82.3	63.0	45.2	31.0	14.2	4.5	54.2	31
	06	100.0	100.0	93.5	82.3	63.5	47.4	31.0	19.7	4.2	59.6	31
	07	100.0	100.0	98.7	91.0	76.0	59.0	41.0	25.5	0.4	66.0	31
	08	100.0	100.0	100.0	98.1	90.0	76.5	56.5	36.1	14.2	72.0	31
	09											
	10											
	11											
	12											
TOTALS		100.0	100.0	98.1	92.3	81.0	66.7	50.0	30.6	17.1	68.6	2430

11-2

PERIOD

MCSP =

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS -LST-	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JAN	1076.7	100.0	100.0	100.0	99.7	97.7	92.7	84.7	74.7	61.7	47.9	100
FEB	1076.7	100.0	100.0	100.0	99.7	98.7	91.3	81.7	69.7	58.7	48.7	100
MAR	1076.7	100.0	100.0	100.0	99.3	97.0	91.3	85.7	78.7	70.7	67.1	100
APR	1076.7	100.0	100.0	100.0	97.3	94.7	87.9	82.1	71.0	61.7	56.1	100
MAY	1076.7	100.0	99.3	96.7	92.3	84.7	74.3	64.7	56.7	48.7	43.3	100
JUN	1076.7	100.0	97.7	93.3	86.3	78.7	67.3	56.7	48.7	40.7	36.3	100
JUL	1076.7	100.0	100.0	100.0	96.3	87.7	78.0	64.7	51.7	40.7	37.3	100
AUG	1076.7	100.0	100.0	100.0	99.7	94.7	81.3	66.0	53.7	40.7	36.7	100
SEPT	1076.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100
OCT	1076.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100
NOV	1076.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100
DECEMBER	1076.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100
TOTALS	1076.7	100.0	99.6	97.1	92.0	84.3	74.3	63.7	53.6	46.2	41.4	1000

RELATIVE HUMIDITY

 17-07 NEW YORK, VIRGINIA
 STATION

22-11

PERIOD

JUL
MONTH
 CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

MONTH	HOURS L.S.T.	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JUL	01	107.0	100.0	100.0	100.0	95.7	94.9	84.8	55.5	11.3	90.0	210
	2	100.0	100.0	100.0	100.0	94.7	96.8	89.7	67.7	17.9	92.1	211
	3	100.0	100.0	100.0	100.0	96.1	92.6	80.7	49.7	7.8	78.3	211
	4	100.0	100.0	100.0	98.7	92.0	74.9	40.7	13.5	1.3	67.8	211
	5	100.0	100.0	99.4	93.0	75.1	50.0	21.7	5.0	1.0	61.0	210
	6	100.0	100.0	99.7	93.9	75.7	51.6	26.1	14.2	4.5	60.1	210
	7	100.0	100.0	100.0	98.7	88.4	70.0	45.7	24.2	4.4	68.7	217
	8	100.0	100.0	100.0	100.0	97.7	90.0	72.6	36.4	7.4	70.2	210
	9											
	10											
	11											
	12											
	13											
	14											
	15											
	16											
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	23											
	24											
	25											
	26											
	27											
	28											
	29											
	30											
	31											
TOTALS		107.0	100.0	99.7	98.1	91.0	77.1	57.7	33.9	4.6	72.0	2420

PERIOD

MCNY=

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN								MEAN RELATIVE HUMIDITY	TOTAL NO OF OBS
		10%	20%	30%	40%	50%	60%	70%	80%			90%
1	100.0	100.0	100.0	100.0	99.4	98.1	97.0	61.9	14.5	81.8	310
2	100.0	100.0	100.0	100.0	99.0	97.7	92.3	78.0	17.7	93.4	310
3	100.0	100.0	100.0	100.0	99.7	97.1	98.4	62.3	18.4	81.5	310
4	100.0	100.0	100.0	99.4	95.0	82.3	50.6	26.0	7.0	70.0	310
5	100.0	100.0	100.0	96.1	82.7	57.1	26.1	9.4	1.6	63.0	310
6	100.0	100.0	100.0	97.4	82.0	57.7	31.9	16.5	4.5	64.4	310
7	100.0	100.0	100.0	100.0	95.0	81.6	61.2	25.2	4.5	71.6	310
8	100.0	100.0	100.0	99.7	99.7	95.5	78.7	44.5	6.7	78.0	310
TOTALS	100.0	100.0	100.0	99.1	94.7	83.4	63.9	38.7	9.6	74.4	2420

RELATIVE HUMIDITY

 STATION NAME
 STATION NAME

PERIOD

PERIOD

MONTH

 CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

MONTH	HOURS L.S.T.	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
1		100.0	100.0	100.0	100.0	97.7	91.3	77.3	51.0	9.7	71.0	300
2		100.0	100.0	100.0	100.0	96.7	91.3	79.7	59.3	9.7	79.3	300
3		100.0	100.0	100.0	100.0	97.7	91.3	79.7	52.3	11.3	79.2	300
4		100.0	100.0	100.0	99.3	91.7	72.3	44.3	16.3	0.7	67.9	300
5		100.0	100.0	98.7	95.7	79.7	49.7	20.7	12.7	4.7	62.1	300
6		100.0	100.0	98.7	93.7	79.7	65.7	33.7	14.3	1.7	62.7	300
7		100.0	100.0	100.0	98.3	94.7	70.3	54.7	21.7	5.7	70.6	300
8		100.0	100.0	100.0	100.0	95.7	68.7	70.3	35.3	7.3	75.3	300
9												
10												
11												
12												
TOTALS		100.0	100.0	99.7	98.2	91.5	76.7	58.4	33.5	6.7	71.9	2400

RELATIVE HUMIDITY

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS:

MONTH	HOURS EST	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10	20	30	40	50	60	70	80	90		
JAN	1	1.0	1.0	1.0	2.0	1.0	3.0	1.0	1.0	1.0	70.4	11
FEB	1	1.0	1.0	1.0	2.0	1.0	1.0	1.0	1.0	1.0	70.7	11
MAR	1	1.0	1.0	1.0	2.0	1.0	7.0	11.0	1.0	1.0	70.7	11
APR	1	1.0	1.0	1.0	2.0	1.0	11.0	1.0	1.0	1.0	72.1	11
MAY	1	1.0	1.0	1.0	2.0	1.0	3.0	1.0	1.0	1.0	72.6	11
JUN	1	1.0	1.0	1.0	2.0	1.0	3.0	1.0	1.0	1.0	72.6	11
JUL	1	1.0	1.0	1.0	2.0	1.0	3.0	1.0	1.0	1.0	72.6	11
AUG	1	1.0	1.0	1.0	2.0	1.0	3.0	1.0	1.0	1.0	72.6	11
SEPT	1	1.0	1.0	1.0	2.0	1.0	3.0	1.0	1.0	1.0	72.6	11
OCT	1	1.0	1.0	1.0	2.0	1.0	3.0	1.0	1.0	1.0	72.6	11
NOV	1	1.0	1.0	1.0	2.0	1.0	3.0	1.0	1.0	1.0	72.6	11
DEC	1	1.0	1.0	1.0	2.0	1.0	3.0	1.0	1.0	1.0	72.6	11
TOTALS	1	1.0	1.0	1.0	2.0	1.0	11.0	1.0	1.0	1.0	72.6	11

RELATIVE HUMIDITY

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

MONTH	HOURS (3.1)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL HOURS
		100	90	80	70	60	50	40	30	20		
JAN	1	100	90	80	70	60	50	40	30	20	70.0	1
FEB	1	100	90	80	70	60	50	40	30	20	70.0	1
MAR	1	100	90	80	70	60	50	40	30	20	70.0	1
APR	1	100	90	80	70	60	50	40	30	20	70.0	1
MAY	1	100	90	80	70	60	50	40	30	20	70.0	1
JUN	1	100	90	80	70	60	50	40	30	20	70.0	1
JUL	1	100	90	80	70	60	50	40	30	20	70.0	1
AUG	1	100	90	80	70	60	50	40	30	20	70.0	1
SEP	1	100	90	80	70	60	50	40	30	20	70.0	1
OCT	1	100	90	80	70	60	50	40	30	20	70.0	1
NOV	1	100	90	80	70	60	50	40	30	20	70.0	1
DEC	1	100	90	80	70	60	50	40	30	20	70.0	1
TOTAL	1	100	90	80	70	60	50	40	30	20	70.0	1

RELATIVE HUMIDITY

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

MONTH	HOURLY OBS.	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	STANDARD DEVIATION
		100	90	80	70	60	50	40	30	20		
JAN	1	100	99.9	99.5	98.5	96.5	93.5	89.5	84.5	78.5	71.5	64.5
FEB	1	100	99.9	99.5	98.5	96.5	93.5	89.5	84.5	78.5	71.5	64.5
MAR	1	100	99.9	99.5	98.5	96.5	93.5	89.5	84.5	78.5	71.5	64.5
APR	1	100	99.9	99.5	98.5	96.5	93.5	89.5	84.5	78.5	71.5	64.5
MAY	1	100	99.9	99.5	98.5	96.5	93.5	89.5	84.5	78.5	71.5	64.5
JUN	1	100	99.9	99.5	98.5	96.5	93.5	89.5	84.5	78.5	71.5	64.5
JUL	1	100	99.9	99.5	98.5	96.5	93.5	89.5	84.5	78.5	71.5	64.5
AUG	1	100	99.9	99.5	98.5	96.5	93.5	89.5	84.5	78.5	71.5	64.5
SEP	1	100	99.9	99.5	98.5	96.5	93.5	89.5	84.5	78.5	71.5	64.5
OCT	1	100	99.9	99.5	98.5	96.5	93.5	89.5	84.5	78.5	71.5	64.5
NOV	1	100	99.9	99.5	98.5	96.5	93.5	89.5	84.5	78.5	71.5	64.5
DEC	1	100	99.9	99.5	98.5	96.5	93.5	89.5	84.5	78.5	71.5	64.5
TOTAL	1	100	99.9	99.5	98.5	96.5	93.5	89.5	84.5	78.5	71.5	64.5

RELATIVE HUMIDITY

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

MONTH	PERCENT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
JAN	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
FEB	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
MAR	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
APR	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
MAY	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
JUN	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
JUL	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
AUG	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
SEP	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
OCT	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
NOV	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
DEC	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	

PERCENTAGE FREQUENCY OF AIR TEMPERATURE

WIND DIRECTION

WIND DIRECTION

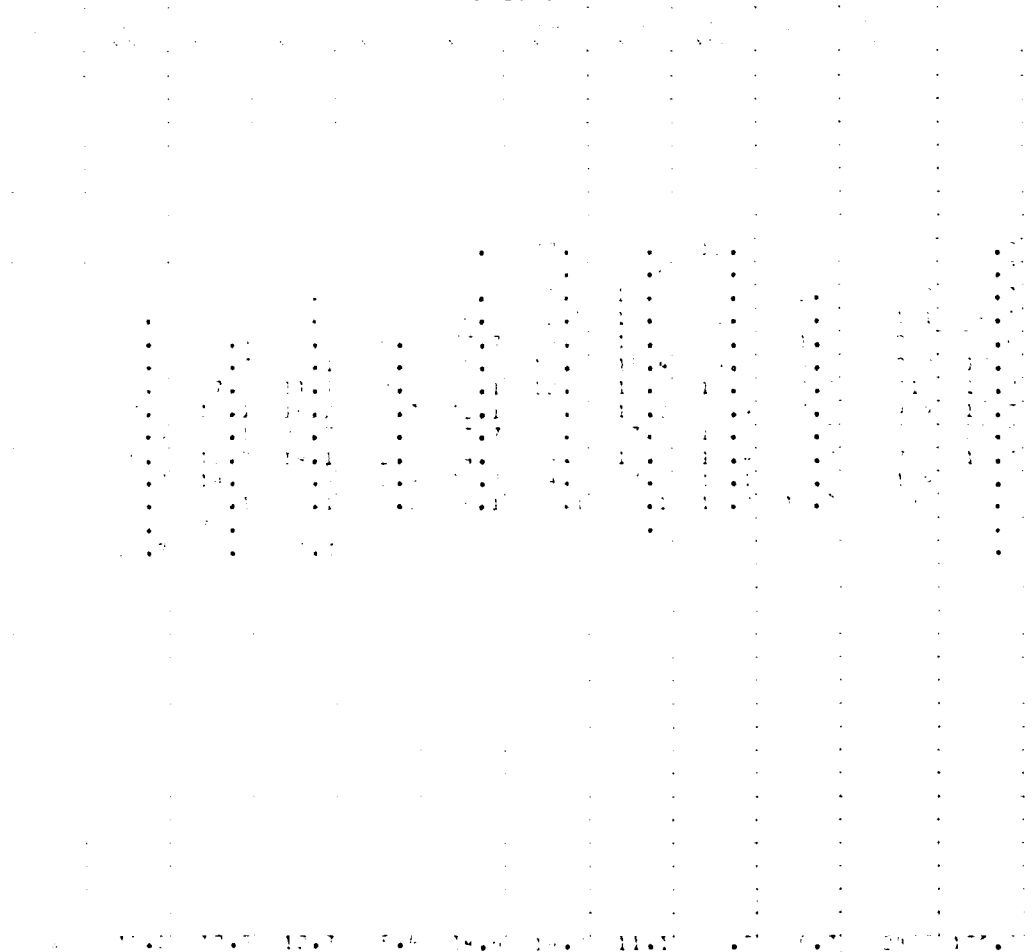
PERCENTAGE FREQUENCY OF AIR TEMPERATURE

WIND DIRECTION

WIND DIRECTION

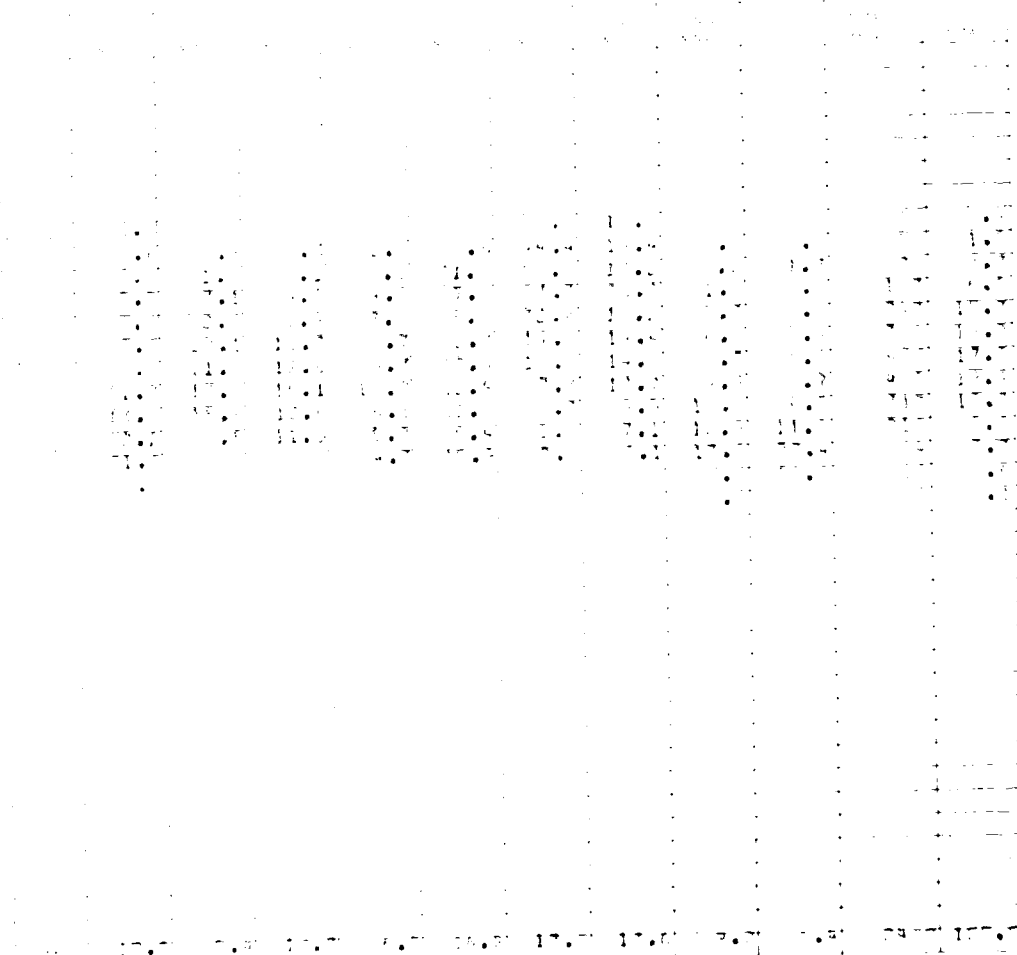
PERCENTAGE FREQUENCY OF AIR TEMPERATURE
VS.
WIND DIRECTION

WIND DIRECTION



PERCENTAGE FREQUENCY OF AIR TEMPERATURE
VS.
WIND DIRECTION

WIND DIRECTION



PERCENTAGE FREQUENCY OF AIR TEMPERATURE
VS.

WIND DIRECTION

1771
STATION: NORFOLK, VIRGINIA

YEAR: JANUARY 1973-DECEMBER 1992

MONTH: MAY DAY: ALL

WIND DIRECTION

TEMP.	NNW & N	NNE & NE	ESE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	% TOTAL
120-121											
121-122											
122-123											
123-124											
124-125											
125-126											
126-127											
127-128											
128-129											
129-130											
130-131											
131-132											
132-133											
133-134											
134-135											
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151-152											
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163-164											
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167-168											
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170-171											
171-172											
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175-176											
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181-182											
182-183											
183-184											
184-185											
185-186											
186-187											
187-188											
188-189											
189-190											
190-191											
191-192											
192-193											
193-194											
194-195											
195-196											
196-197											
197-198											
198-199											
199-200											
TOTALS	9.8	11.5	15.2	7.8	18.0	16.4	9.0	5.0	7.0	248.0	100.0

NAVWEASERVCOM

PERCENTAGE FREQUENCY OF AIR TEMPERATURE
VS.

WIND DIRECTION

WIND DIRECTION

JANUARY 1973-31 DECEMBER 1982

DATE

ALL

WIND DIRECTION

TEMP.	NNE & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	OF TOTAL
100-109.99											
110-119.99											
120-129.99											
130-139.99											
140-149.99											
150-159.99											
160-169.99											
170-179.99											
180-189.99											
190-199.99											
200-209.99											
210-219.99											
220-229.99											
230-239.99											
240-249.99											
250-259.99											
260-269.99											
270-279.99											
280-289.99											
290-299.99											
300-309.99											
310-319.99											
320-329.99											
330-339.99											
340-349.99											
350-359.99											
360-369.99											
370-379.99											
380-389.99											
390-399.99											
400-409.99											
410-419.99											
420-429.99											
430-439.99											
440-449.99											
450-459.99											
460-469.99											
470-479.99											
480-489.99											
490-499.99											
500-509.99											
510-519.99											
520-529.99											
530-539.99											
540-549.99											
550-559.99											
560-569.99											
570-579.99											
580-589.99											
590-599.99											
600-609.99											
610-619.99											
620-629.99											
630-639.99											
640-649.99											
650-659.99											
660-669.99											
670-679.99											
680-689.99											
690-699.99											
700-709.99											
710-719.99											
720-729.99											
730-739.99											
740-749.99											
750-759.99											
760-769.99											
770-779.99											
780-789.99											
790-799.99											
800-809.99											
810-819.99											
820-829.99											
830-839.99											
840-849.99											
850-859.99											
860-869.99											
870-879.99											
880-889.99											
890-899.99											
900-909.99											
910-919.99											
920-929.99											
930-939.99											
940-949.99											
950-959.99											
960-969.99											
970-979.99											
980-989.99											
990-999.99											
TOTALS	5.0	1.0	1.0	7.0	15.0	21.0	11.0	4.0	7.0	200	100.0

NAVWEASERVCOM

PERCENTAGE FREQUENCY OF AIR TEMPERATURE
VS.
WIND DIRECTION

NAFELP, VIRGINIA

JANUARY 1973-DECEMBER 1992

JULY

ALL

WIND DIRECTION

WIND DIRECTION	NNW & N	NNE & NE	ESE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	OF TOTAL
000-010											
010-020											
020-030											
030-040											
040-050											
050-060											
060-070											
070-080											
080-090											
090-100											
100-110											
110-120											
120-130											
130-140											
140-150											
150-160											
160-170											
170-180											
180-190											
190-200											
200-210											
210-220											
220-230											
230-240											
240-250											
250-260											
260-270											
270-280											
280-290											
290-300											
300-310											
310-320											
320-330											
330-340											
340-350											
350-360											
TOTALS	7.8	9.8	11.3	5.2	13.2	24.9	14.6	4.1	9.2	2476	100.0

NAVWEASERVCOM

100-4112-11127

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PERCENTAGE FREQUENCY OF AIR TEMPERATURE
VS.

WIND DIRECTION

STATION: NO. 101, VIKING 17 DATE: JAN 1973-DECEMBER 1972 MONTH: AUGUST ALL

WIND DIRECTION

TEMP	NNW & N	NNE & NE	E & ESE	ESE & E	SE & SSE	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	% TOTAL
10 TO 14											
15 TO 19											
20 TO 24											
25 TO 29											
30 TO 34											
35 TO 39											
40 TO 44											
45 TO 49											
50 TO 54											
55 TO 59											
60 TO 64											
65 TO 69											
70 TO 74											
75 TO 79											
80 TO 84											
85 TO 89											
90 TO 94											
95 TO 99											
100 TO 104											
105 TO 109											
110 TO 114											
115 TO 119											
120 TO 124											
125 TO 129											
130 TO 134											
135 TO 139											
140 TO 144											
145 TO 149											
150 TO 154											
155 TO 159											
160 TO 164											
165 TO 169											
170 TO 174											
175 TO 179											
180 TO 184											
185 TO 189											
190 TO 194											
195 TO 199											
TOTALS	5.6	10.9	12.0	5.9	15.1	23.5	10.2	3.1	10.6	248	100.0

NAVWEASERVCOM

PERCENTAGE FREQUENCY OF AIR TEMPERATURE
VS.
WIND DIRECTION

STATION NO. 512, VIRGINIA

JAN. 1973 - 06. 1975 1975 1975 ALL

WIND DIRECTION												
TEMP.	NNW A.N.	NNW S.N.	NE A.E.	ENE S.E.	E A.S.	ESE S.S.W.	SE S.W.	SSE A.S.W.	SW A.W.	WSW A.W.	TOTAL FREQ.	% TOTAL
10-14												
14-18												
18-22												
22-26												
26-30												
30-34												
34-38												
38-42												
42-46												
46-50												
50-54												
54-58												
58-62												
62-66												
66-70												
70-74												
74-78												
78-82												
82-86												
86-90												
90-94												
94-98												
98-102												
102-106												
106-110												
110-114												
114-118												
118-122												
122-126												
126-130												
130-134												
134-138												
138-142												
142-146												
146-150												
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154-158												
158-162												
162-166												
166-170												
170-174												
174-178												
178-182												
182-186												
186-190												
190-194												
194-198												
198-202												
202-206												
206-210												
210-214												
214-218												
218-222												
222-226												
226-230												
230-234												
234-238												
238-242												
242-246												
246-250												
250-254												
254-258												
258-262												
262-266												
266-270												
270-274												
274-278												
278-282												
282-286												
286-290												
290-294												
294-298												
298-302												
302-306												
306-310												
310-314												
314-318												
318-322												
322-326												
326-330												
330-334												
334-338												
338-342												
342-346												
346-350												
350-354												
354-358												
358-362												
362-366												
366-370												
370-374												
374-378												
378-382												
382-386												
386-390												
390-394												
394-398												
398-402												
402-406												
406-410												
410-414												
414-418												
418-422												
422-426												
426-430												
430-434												
434-438												
438-442												
442-446												
446-450												
450-454												
454-458												
458-462												
462-466												
466-470												
470-474												
474-478												
478-482												
482-486												
486-490												
490-494												
494-498												
498-502												
502-506												
506-510												
510-514												
514-518												
518-522												
522-526												
526-530												
530-534												
534-538												
538-542												
542-546												
546-550												
550-554												
554-558												
558-562												
562-566												
566-570												
570-574												
574-578												
578-582												
582-586												
586-590												
590-594												
594-598												
598-602												
602-606												
606-610												
610-614												
614-618												
618-622												
622-626												
626-630												
630-634												
634-638												
638-642												
642-646												
646-650												
650-654												
654-658												
658-662												
662-666												
666-670												
670-674												
674-678												
678-682												
682-686												
686-690												
690-694												
694-698												
698-702												
702-706												
706-710												
710-714												
714-718												
718-722</												

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PERCENTAGE FREQUENCY OF AIR TEMPERATURE
VS.

WIND DIRECTION

NORFOLK, VIRGINIA

JANUARY 1973-DECEMBER 1982

OCTOBER

ALL

STATION

PERIOD

YEAR

MONTH

NEW

WIND DIRECTION

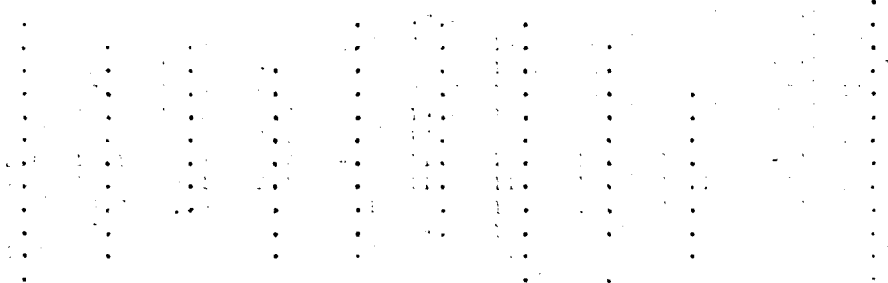
TEMP	NE & N	NNE & NE	ESE & E	ESE & E	SSE & S	SSW & S	WSW & W	WNW & W	CAV	TOTAL FREQ.	% TOTAL
10-12											
12-14											
14-16											
16-18											
18-20											
20-22											
22-24											
24-26											
26-28											
28-30											
30-32											
32-34											
34-36											
36-38											
38-40											
40-42											
42-44											
44-46											
46-48											
48-50											
50-52											
52-54											
54-56											
56-58											
58-60											
60-62											
62-64											
64-66											
66-68											
68-70											
70-72											
72-74											
74-76											
76-78											
78-80											
80-82											
82-84											
84-86											
86-88											
88-90											
90-92											
92-94											
94-96											
96-98											
98-100											
TOTALS	17.4	16.	10.5	7.8	10.7	13.9	10.3	8.1	10.2	244	100.0

NAVWEASERVCOM

4

PERCENTAGE FREQUENCY OF AIR TEMPERATURE
VS.
WIND DIRECTION

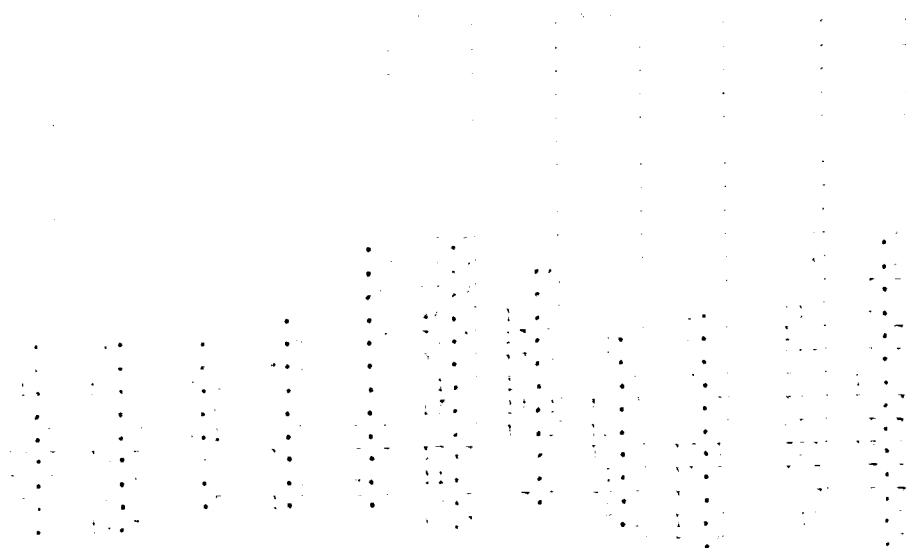
WIND DIRECTION



NAVWEASER 10M

PERCENTAGE FREQUENCY OF AIR TEMPERATURE
AND DIRECTION

PERCENTAGE



NAVJAG-1000

TEMPERATURE AND DIRECTION

2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036 2037 2038 2039 2040 2041 2042 2043 2044 2045 2046 2047 2048 2049 2050 2051 2052 2053 2054 2055 2056 2057 2058 2059 2060 2061 2062 2063 2064 2065 2066 2067 2068 2069 2070 2071 2072 2073 2074 2075 2076 2077 2078 2079 2080 2081 2082 2083 2084 2085 2086 2087 2088 2089 2090 2091 2092 2093 2094 2095 2096 2097 2098 2099 2100 2101 2102 2103 2104 2105 2106 2107 2108 2109 2110 2111 2112 2113 2114 2115 2116 2117 2118 2119 2120 2121 2122 2123 2124 2125 2126 2127 2128 2129 2130 2131 2132 2133 2134 2135 2136 2137 2138 2139 2140 2141 2142 2143 2144 2145 2146 2147 2148 2149 2150 2151 2152 2153 2154 2155 2156 2157 2158 2159 2160 2161 2162 2163 2164 2165 2166 2167 2168 2169 2170 2171 2172 2173 2174 2175 2176 2177 2178 2179 2180 2181 2182 2183 2184 2185 2186 2187 2188 2189 2190 2191 2192 2193 2194 2195 2196 2197 2198 2199 2200 2201 2202 2203 2204 2205 2206 2207 2208 2209 2210 2211 2212 2213 2214 2215 2216 2217 2218 2219 2220 2221 2222 2223 2224 2225 2226 2227 2228 2229 2230 2231 2232 2233 2234 2235 2236 2237 2238 2239 2240 2241 2242 2243 2244 2245 2246 2247 2248 2249 2250 2251 2252 2253 2254 2255 2256 2257 2258 2259 2260 2261 2262 2263 2264 2265 2266 2267 2268 2269 2270 2271 2272 2273 2274 2275 2276 2277 2278 2279 2280 2281 2282 2283 2284 2285 2286 2287 2288 2289 2290 2291 2292 2293 2294 2295 2296 2297 2298 2299 2300 2301 2302 2303 2304 2305 2306 2307 2308 2309 2310 2311 2312 2313 2314 2315 2316 2317 2318 2319 2320 2321 2322 2323 2324 2325 2326 2327 2328 2329 2330 2331 2332 2333 2334 2335 2336 2337 2338 2339 2340 2341 2342 2343 2344 2345 2346 2347 2348 2349 2350 2351 2352 2353 2354 2355 2356 2357 2358 2359 2360 2361 2362 2363 2364 2365 2366 2367 2368 2369 2370 2371 2372 2373 2374 2375 2376 2377 2378 2379 2380 2381 2382 2383 2384 2385 2386 2387 2388 2389 2390 2391 2392 2393 2394 2395 2396 2397 2398 2399 2400 2401 2402 2403 2404 2405 2406 2407 2408 2409 2410 2411 2412 2413 2414 2415 2416 2417 2418 2419 2420 2421 2422 2423 2424 2425 2426 2427 2428 2429 2430 2431 2432 2433 2434 2435 2436 2437 2438 2439 2440 2441 2442 2443 2444 2445 2446 2447 2448 2449 2450 2451 2452 2453 2454 2455 2456 2457 2458 2459 2460 2461 2462 2463 2464 2465 2466 2467 2468 2469 2470 2471 2472 2473 2474 2475 2476 2477 2478 2479 2480 2481 2482 2483 2484 2485 2486 2487 2488 2489 2490 2491 2492 2493 2494 2495 2496 2497 2498 2499 2500 2501 2502 2503 2504 2505 2506 2507 2508 2509 2510 2511 2512 2513 2514 2515 2516 2517 2518 2519 2520 2521 2522 2523 2524 2525 2526 2527 2528 2529 2530 2531 2532 2533 2534 2535 2536 2537 2538 2539 2540 2541 2542 2543 2544 2545 2546 2547 2548 2549 2550 2551 2552 2553 2554 2555 2556 2557 2558 2559 2560 2561 2562 2563 2564 2565 2566 2567 2568 2569 2570 2571 2572 2573 2574 2575 2576 2577 2578 2579 2580 2581 2582 2583 2584 2585 2586 2587 2588 2589 2590 2591 2592 2593 2594 2595 2596 2597 2598 2599 2600 2601 2602 2603 2604 2605 2606 2607 2608 2609 2610 2611 2612 2613 2614 2615 2616 2617 2618 2619 2620 2621 2622 2623 2624 2625 2626 2627 2628 2629 2630 2631 2632 2633 2634 2635 2636 2637 2638 2639 2640 2641 2642 2643 2644 2645 2646 2647 2648 2649 2650 2651 2652 2653 2654 2655 2656 2657 2658 2659 2660 2661 2662 2663 2664 2665 2666 2667 2668 2669 2670 2671 2672 2673 2674 2675 2676 2677 2678 2679 2680 2681 2682 2683 2684 2685 2686 2687 2688 2689 2690 2691 2692 2693 2694 2695 2696 2697 2698 2699 2700 2701 2702 2703 2704 2705 2706 2707 2708 2709 2710 2711 2712 2713 2714 2715 2716 2717 2718 2719 2720 2721 2722 2723 2724 2725 2726 2727 2728 2729 2730 2731 2732 2733 2734 2735 2736 2737 2738 2739 2740 2741 2742 2743 2744 2745 2746 2747 2748 2749 2750 2751 2752 2753 2754 2755 2756 2757 2758 2759 2760 2761 2762 2763 2764 2765 2766 2767 2768 2769 2770 2771 2772 2773 2774 2775 2776 2777 2778 2779 2780 2781 2782 2783 2784 2785 2786 2787 2788 2789 2790 2791 2792 2793 2794 2795 2796 2797 2798 2799 2800 2801 2802 2803 2804 2805 2806 2807 2808 2809 2810 2811 2812 2813 2814 2815 2816 2817 2818

NAVW 100-100-100

Approved for Release

PART F PRESSURE SUMMARY

Presented in this part are two tables giving the means, standard deviation, and total number of observations of station pressure and sea-level pressure by month and season for the total number of observations made during the entire period of the times GCI. The same observations are also provided at the rate of one hour for all hours of the day. All years of data will be provided in this table. The data for the period is limited to January, 1941 through December, 1941. The data for the period of 1942 and after these data.

1. Station pressure in inches of mercury.

2. Sea-level pressure in millibars.

Provided below is a table converting station pressure values in inches of mercury to millibars and vice versa. This table is a conversion table for the use of the data in the United States Meteorological Data.

P R E S S U R E					A L T I T U D E					F O O T S					F T				
10	9	8	7	6	5	4	3	2	1	0	0	0	0	0	0	0	0	0	0
20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
B A R O M E T R					P R E S S U R E					F O O T S					F T				
100	100	100	800	800	800	800	800	800	800	800	800	800	800	800	800	800	800	800	800
10	9	8	7	6	5	4	3	2	1	0	0	0	0	0	0	0	0	0	0
P R E S S U R E					A L T I T U D E					F O O T S					F T				

MANUSCRIPT

NAVWEAL.RY.COM

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DATE
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7-85

DTIC

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DATE
FILMED

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